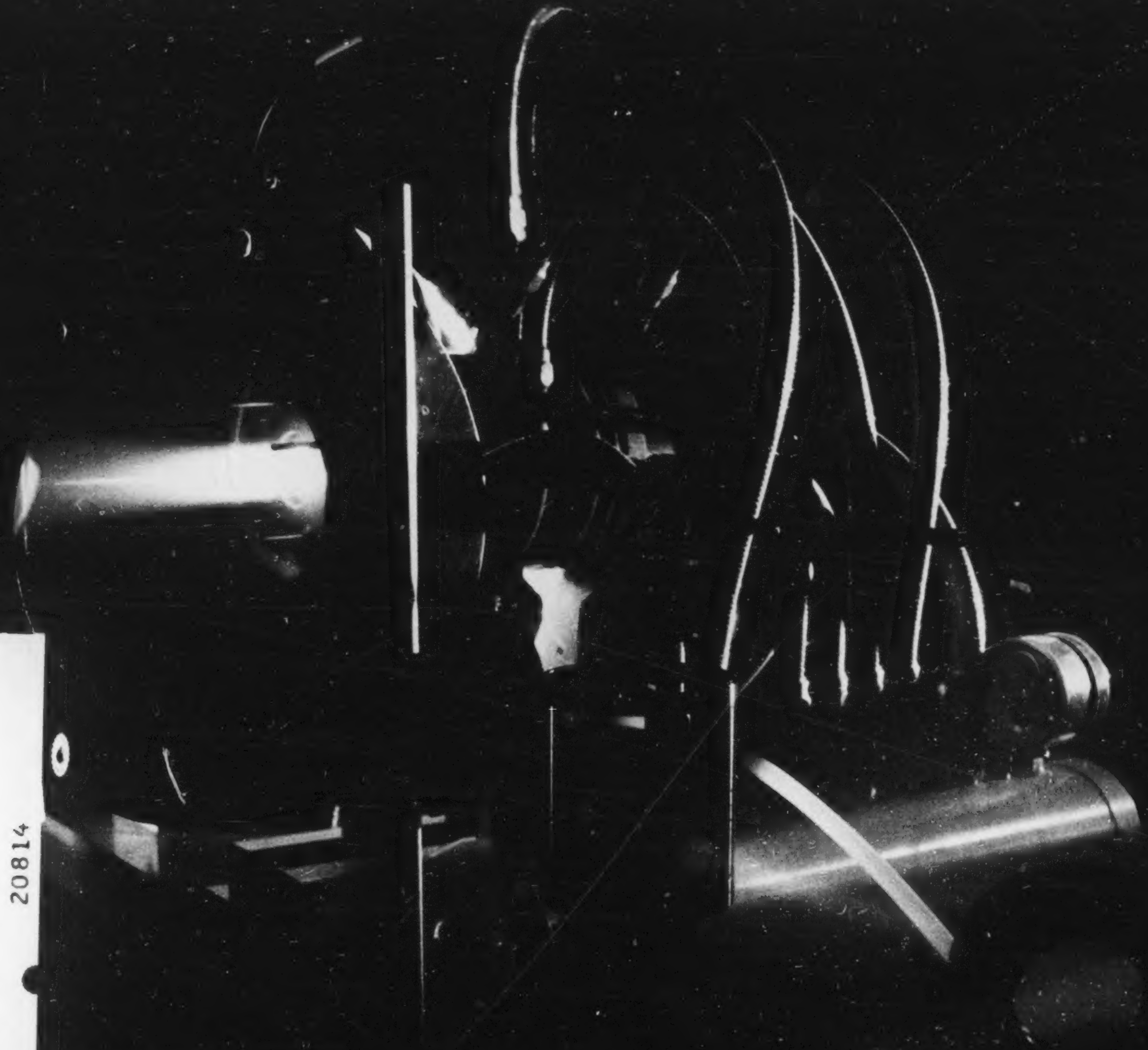
A 2625-1

NOVEMBER-DECEMBER 1985

publicpower



1
22-2-AD- 4
CONGRESSIONAL INFO. SERVICE
SRI
4520 EAST-WEST HIGHWAY
BETHESDA
MARYLAND 20814

Public Power Innovation *page 30*

public power

NOVEMBER-DECEMBER 1985
VOLUME 43 NUMBER 6

2 **OUTLOOK AND INSIGHTS by Alex Radin**
Public power systems must become more intimately involved in legislation.

10 **MANAGE YOUR MARKET by Karen Anderson**
'The deliberate shaping of load patterns and control of load growth are integral parts of least-cost power supply planning.'

18 **ADAPT YOUR FINANCING by Randy Swisher**
'Utilities are purchasing energy efficiency quickly and inexpensively by at least five methods of financing consumer conservation.'

28 **SLUDGE SHAVES PEAKS AT STURGEON BAY by Lori A. Woehrle**
The wastewater plant also contributes power to the grid, conserves water and natural gas, reuses thermal energy and saves the Wisconsin community money.

30 **PUBLIC POWER INNOVATION**
'New entries from 110 U.S. and Canadian public power systems join a data bank of more than 1,400 projects which increase productivity of nonprofit energy service.'

81 **IT'S A NEW ERA FOR SMALL HYDRO by Suzanne Matchett**
'When the hydroelectric licensing process gets back on track—no earlier than 1987—the procedures are likely to be substantially different than in the past.'

86 **OUTLOOK BRIGHTENS FOR LEAD-ACID BATTERY by Thomas York**
'The simple lead-acid battery may soon answer the needs of many electric utilities seeking reliable but inexpensive sources of peak generating capacity.'

90 **HERALD THE HOLIDAYS**
Public power systems display variety in the holiday season.

93 NEW PRODUCTS 99 AD INDEX 100 LETTERS
101 REVIEWS 102 MEETINGS

103 **INSIDE APPA by Lori A. Woehrle**
Annual Report Contest winners named; photo contest entries due Dec. 31; results of cable use survey available; five join APPA staff.

104 **THE OTHER SIDE by Vic Reinemer**
'Editing technocrats invigorates the intellect.'

FRONT COVER: Ontario Hydro explores possible future industrial uses of electricity in its fully instrumented laboratory housing an 80-kW modular dc plasma torch. Plasma arcs in high-temperature processes may offer manufacturing opportunities in structural ceramics not available with processes using conventional fuels. Hundreds of other new examples of public power innovation are summarized beginning on page 30.

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
MELISSA ANNE BROWN
LARRY BRUNEEL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
LAWRENCE MANSUETI
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
JEANNIE SHENK
DEBORAH SLIZ
RANDY SWISHER
JEFF TARBERT

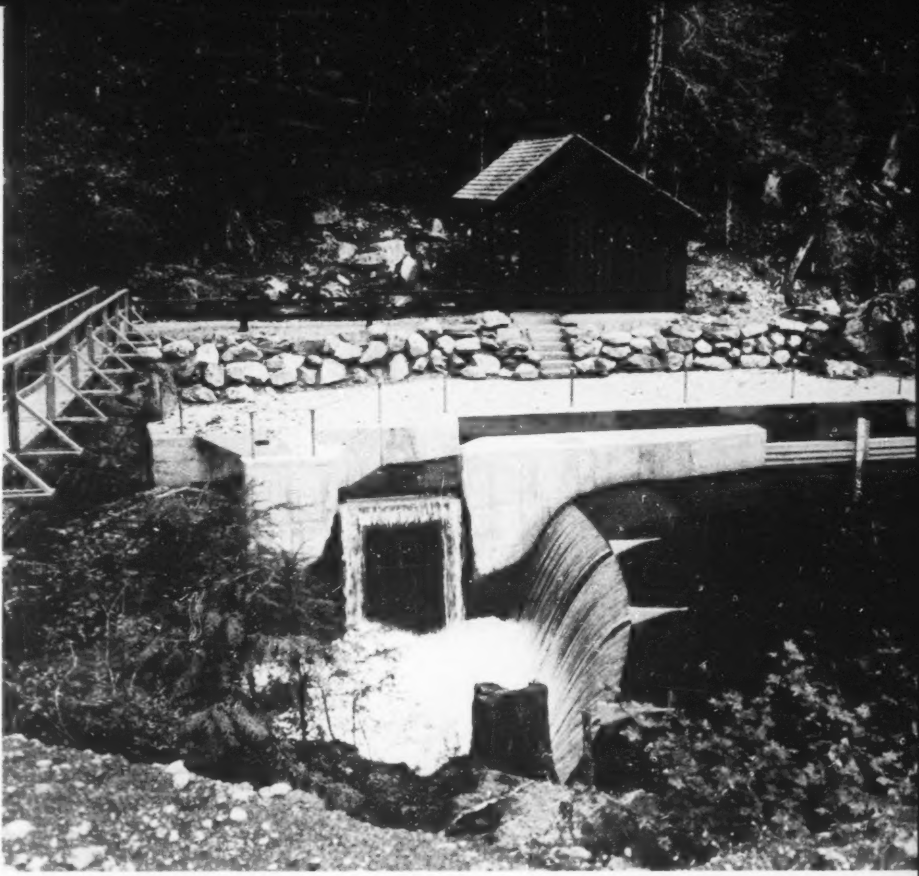
Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager*, Peggy Douglas; *Circulation manager*, Margaret I. Winfough; *Classified advertising manager*, LaVeer Jordan.

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER *is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily* APPA *policies. For permission to reprint articles write or call the publisher.*

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

It's a New Era for Small Hydro



Seattle (Wash.) City Light's Newhalem Creek Project typifies past construction of small hydro plants in the Northwest. Built in Whatcom County in 1921 on a tributary of the Skagit River, the 1.3-MW plant was fully renovated in 1969.

by SUZANNE MATCHETT
environmental analyst, resource planning, Seattle (Wash.) City Light

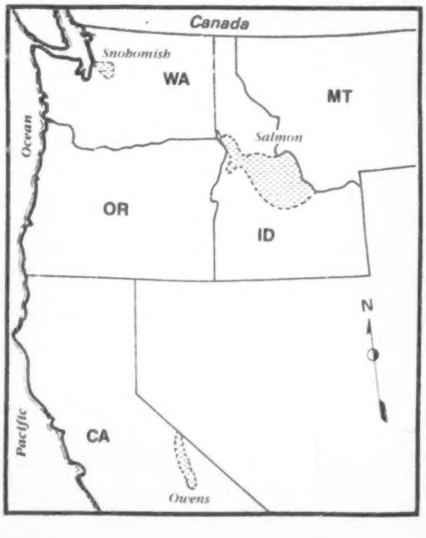
A MAJOR REVIEW OF ENVIRONMENTAL implications of small hydroelectric projects is under way in the Northwest and California. This study—the cluster impact assessment procedure (CIAP) ordered in April by the Federal Energy Regulatory Commission (FERC)—has already had national effects; review and approval of proposed projects has slowed considerably because of uncertainties regarding procedures. When the hydroelectric licensing process gets back on track—no earlier than 1987—the procedures are likely to be substantially different than in the past.

What the commission seeks to evaluate is the cumulative effect of numerous hydroelectric alterations of a river basin. These alterations, while perhaps minor in themselves, combine to produce significant adverse environmental consequences. This cumulative effects issue has grown rapidly in less than a decade, with development of the hydroelectric potential of small streams due to changes in tax laws, licensing procedures and power sales opportunities.

Developers, encouraged by the prospect of significant returns on small hydroelectric investments, have filed hundreds of applications with the FERC. Local, state and federal agencies and native American tribes are involved in the licensing process. Attention focuses on fish, wildlife, recreation and cultural issues raised by hydro development.

In the late 1970s the combined effect of the Public Utility Regulatory Policies Act (PURPA) and crude oil windfall profits tax resulted in an unanticipated and overwhelming surge of development or retrofit of hydro facilities. From 1979 to 1980, preliminary permit applications filed with the FERC increased from 76 to 501. As shown in the table on the following page, applications for preliminary permits peaked in 1981, but applications for both preliminary permits and licenses for new capacity were almost 10 times as numerous in fiscal 1984 as in fiscal 1979.

The license exemption process was initiated in fiscal 1981 to expedite small (below 5-MW) projects from usual and cumbersome procedures by exempting them from licensing requirements of the Federal Power Act, and shifting some regulatory responsibility from the FERC to state and regional federal offices. Developers qualifying for exemption from the procedures were not, however, excused from all regulatory responsibility. They were required to accept conditions established by the U.S. Fish and Wildlife Service and state fish and wildlife



Major studies of the potential cumulative effect of numerous hydroelectric alterations of the Snohomish, Salmon and Owens River basins began this year, at the direction of the Federal Energy Regulatory Commission. Additional basins may be studied later.

Photo Courtesy Oregon Historical Society.

Celilo Falls on the Columbia River, above, an Indian salmon fishery dating back to prehistoric times, was inundated by The Dalles Dam in 1957. Potential present-day conflicts between Indian fishing and hydroelectric development involve dipnetting (shown at right at Sherar's Falls on the Deschutes River), spearing or hook-and-line fishing. Indian fishing on Columbia River tributaries is primarily for subsistence; commercial fishing takes place on the mainstem Columbia River.

FERC HYDRO LICENSES, AMENDMENTS, PERMITS, EXEMPTIONS

	FY 1979	FY 1980	FY 1981	FY 1982	FY 1983	FY 1984
New Capacity Licenses and Amendments	25	73	91	263	279	231
Preliminary Permits	76	501	1,856	944	630	755
Exemptions	—	—	177	475	373	235
TOTAL	101	574	2,124	1,682	1,282	1,221

agencies. These conditions are in perpetuity; exemptions do not expire as licenses do.

Individual Review Inadequate

The FERC now issues preliminary permits, licenses and exemptions on a case-by-case basis, with no review of a project application in relation to other projects proposed within the basin. The FERC does not coordinate issuance of preliminary permits, licenses or exemptions in the same basin.

In 1983, agencies, tribes and environmental groups, concerned about cumulative effects of the large number of potential hydro projects, filed petitions for coordinated proceedings on a number of basins citing several legislative mandates, including Section 10(a) of the Federal Power Act, the Fish & Wildlife Coordination Act and the National Environmental Policy Act (NEPA). Coordinated proceedings would require that the FERC take a comprehensive evaluation approach to licensing or exempting projects in river basins. The petitioners requested that the FERC grant licenses and exemptions only after undertaking a study of cumulative effects for each river basin involved. Other reasons given for coordinated proceedings and completion of a cumulative effects study included tribal treaty rights and water rights, federal trust responsibilities to protect tribal fisheries and reserved water rights, and provisions within the Pacific Northwest Electric Power Planning and Conservation Act and the Administrative Procedures Act.

Petitioners also noted the lack of comprehensive basinwide data. FERC personnel have relied on developers to gather and present the supporting environmental information (usually in a license or exemption application with backup reports) for agency review. The developers' interest is limited to those sites they alone wish to develop, thus there has been no mechanism for looking at the basin as a whole.

In the Pacific Northwest, the primary environmental issue concerns protection of aquatic resources, particularly anadromous—migratory—salmon and steelhead. Instream flow is the predominant fisheries issue, because the water needed to operate a hydroelectric project could be unavailable for fish, especially during critical life stages such as spawning. Developers, electric utilities, irrigation districts and entrepreneurs have been expected to report on other resources—including wildlife, resident fish, endangered species, recreation, cultural values, vegetation and soil—and negotiate mitigation to protect these resources.

Commission Overruled FERC Staff

Throughout the spring and summer of 1983, the FERC's Environmental Analysis Branch held public meetings in the Northwest and California on cumulative impacts in basins where petitions were filed. The primary participants were hydro developers, resource agencies, Indian tribes, and environmental and landowner groups.

The FERC environmental staff then recommended to the commissioners that cumulative effects be addressed through comprehensive river basin studies. The recommendation was rejected 4-0 by the commissioners in mid-September 1983,

Photo Courtesy Chuck Williams

with no direction given to the Environmental Analysis Branch. The cumulative effects issue appeared to drop from sight as the new chairman of the commission, Raymond J. O'Connor, took office in October 1983.

Throughout the remainder of 1983 and 1984, the FERC continued to issue licenses, exemptions and preliminary permits in basins where petitioners had requested coordinated proceedings. Concerned agencies attempted to appeal the FERC orders based on the need for cumulative environmental impact studies. The commissioners denied the appeals. Requiring studies prior to issuing a preliminary permit were not justified, they said, as many projects would not progress to the licensing stage. The FERC said jurisdictional resource agencies should consider the cumulative effects of exemptions.

Meanwhile, three court decisions profoundly affected the FERC's authority in issuing licenses and exemptions. These involve the *Escondido, Tulalip,* and *Yakima* cases.

- *Escondido*, which went to the U.S. Supreme Court, requires the FERC to accept license conditions received from the federal interior and agriculture departments for projects on federal lands under their jurisdiction. Prior to this decision, the two departments made recommendations but the FERC decided what should or should not be included in the license.
- In the *Tulalip* case, the 9th Circuit Court invalidated the FERC's exemption rule on "natural water features" that used diversion structures no taller than 10 feet and impounded no more than two acre-feet of water. The court held that the diversion structures were dams and, therefore, in violation of the natural water feature as intended by PURPA and the Energy Security Act.
- The *Yakima* case relates to establishing terms and conditions prior to issuing a license. In the past, the FERC had occasionally issued licenses before the resource agencies, tribes and applicant had worked out the details of the terms and conditions. The agencies and tribes challenged the FERC's issuance of a new license to Chelan County PUD No. 1 to continue operation of its existing Rock Island Hydroelectric Project prior to reaching an agreement on the minimum instream flow. Again, the 9th Circuit Court ruled in favor of the agencies and tribes. The decision forced the FERC to issue all terms and conditions at the time of licensing.

These three decisions had their own cumulative effect—they diminished the FERC's authority. Meanwhile, Congress began to look closer at small hydroelectric issues. In a contentious congressional hearing in September 1984, FERC Chairman O'Connor was questioned by the House Subcommittee on Energy Conservation and Power on the commission's interpretation and implementation of laws regarding cumulative effects, comprehensive planning and the role of resource agencies in hydro licensing and exemptions. Members of Congress said legislation to rectify the licensing procedures would be proposed if the FERC did not resolve the problems.

Some states, including Maine and Oregon, confronted the cumulative effects issue through new comprehensive planning laws. The region served by Bonneville Power Administration (Idaho, Washington, Oregon and western Montana) had the Federal Pacific Northwest Electric Power Planning and Conservation Act as a tool which produced a regional conservation and power plan and fish and wildlife program. The power plan stipulates a ranking procedure for hydro sites throughout the four-state region. The fish and wildlife program is developing criteria and methods for assessing cumulative effects of new hydro development, in concert with government, tribal and utility representatives.

The FERC Got the Message

These judicial, congressional and state actions did not go unnoticed by the FERC commissioners, whose staff late in 1984 acknowledged the unprecedented clustering of proposed hydroelectric projects in Western river basins. The cluster impact assessment procedure emerged as a methodology to review the potential environmental impacts of clustered projects within a basin. The staff identified more than 20 Western river basins with numerous projects and filings and potential for significant cumulative impacts.

Three basins were cited as likely candidates for testing the cluster methodology—the Snohomish in Washington, Salmon in Idaho, and Owens in California—because of the level of interest evident from the petitions and public meetings and the presence of important resources. The FERC issued a notice of request for comments on the proposed procedure in January 1985.

APPA formed a task force headed by Roy Metzgar, Snohomish (Wash.) PUD project coordinator, to represent member utilities in commenting on the proposal. The task force urged that the procedure include: consideration of projects for which exemptions as well as licenses are sought; broad public participation in the proceeding; elimination from the review of projects which would not affect an identified cluster; flexibility to take into account the unique aspects of each basin; and limitation of review to the three identified river basins until experience there refined the cluster review procedure.

Currently the procedure adopted by the FERC in April applies only to the Snohomish, Salmon and Owens river basins. The commission will decide later whether the CIAP

Those with a direct interest in the FERC hydro studies in the Northwest include this fly fisherman, in search of a steelhead on a Columbia River tributary. Photo by Bill McMillan

should be completed in other basins. Two federal laboratories—Argonne and Oak Ridge—will help the FERC staff. The procedure has four phases:

- First, a geographic sort will identify the geographic areas of concern in each basin. Public and technical meetings will identify critical or target resources. The location of projects with license and exemption applications prescribe the boundaries of the geographic area. About three months after the public meetings, the FERC will report on the geographic boundaries and the target resources identified by agencies, tribes, developers, the FERC, and others participants.
- The second phase, the resource sort, will identify proposed projects that could have adverse and cumulative effects on target resources. Projects in this category will continue to the next phase. Those projects deemed not impacting target resources will be dropped from the CIAP and returned to the regular case-by-case licensing or exemption process. The final product of the second phase will be resource maps identifying projects within the basin and target resource distribution within the cluster of projects.
- The third phase, multiple project assessment, involves impact assessment and analysis. Involvement of the resource agencies and others will be necessary to develop impact criteria and ranking levels. The impacts of each project on the target resources will be assessed at this stage using weighted values, statistics, algorithms and matrices. An optimum development scenario, identifying the greatest energy development at the least environmental cost, will emerge from the matrix analysis.
- The final NEPA document phase will include either an environmental impact statement (EIS) or environmental assessment, depending on the level of anticipated impact. An environmental assessment would focus only on the target resources. The EIS would not be limited to the target resources identified previously; all environmental resources will be addressed in this document.

As part of the EIS, the preferred development scenario will be outlined along with alternative scenarios. A final EIS will be issued following public review of the draft. The final environmental assessment will include either a finding of no significant cumulative adverse impact on the target resources or a determination of significant cumulative adverse impact which will trigger preparation of an EIS. No additional analysis will be required if there is a finding of no significant impact to the target resources.

Geographic Scoping Began in June

The first CIAP meetings were held in local communities within the three basins in June. At the public meeting for Snohomish Basin, both agency and tribal representatives again asked that preliminary permits be included to make the process more meaningful. Additionally, the agencies want two recently licensed projects, which have stays until agreements are reached on minimum instream flows, included in the CIAP. The FERC issued a geographic scoping document following this meeting and agreed to include the two projects in the CIAP, but would not include projects in the preliminary permit phase.

With only $1.7 million available for the CIAP in fiscal 1985 and 1986, the FERC will be forced to be efficient in compiling the data bases and working with the interested parties in the three basins. During Senate consideration of the energy and water appropriations bill in August, Sen. Dan Evans, R-Wash., introduced an amendment, accepted by the Senate, which specified that $2.7 million out of the FERC's $95.5 million budget was to be spent on CIAP. In October the amendment was deleted in the conference on resolution of the differences between the Senate and House bills. Gaps in the available information will force reliance on the professional judgment of the FERC staff—and biologists retained by resource agencies, tribes and developers—in identifying target resources and weighing potential cumulative effects.

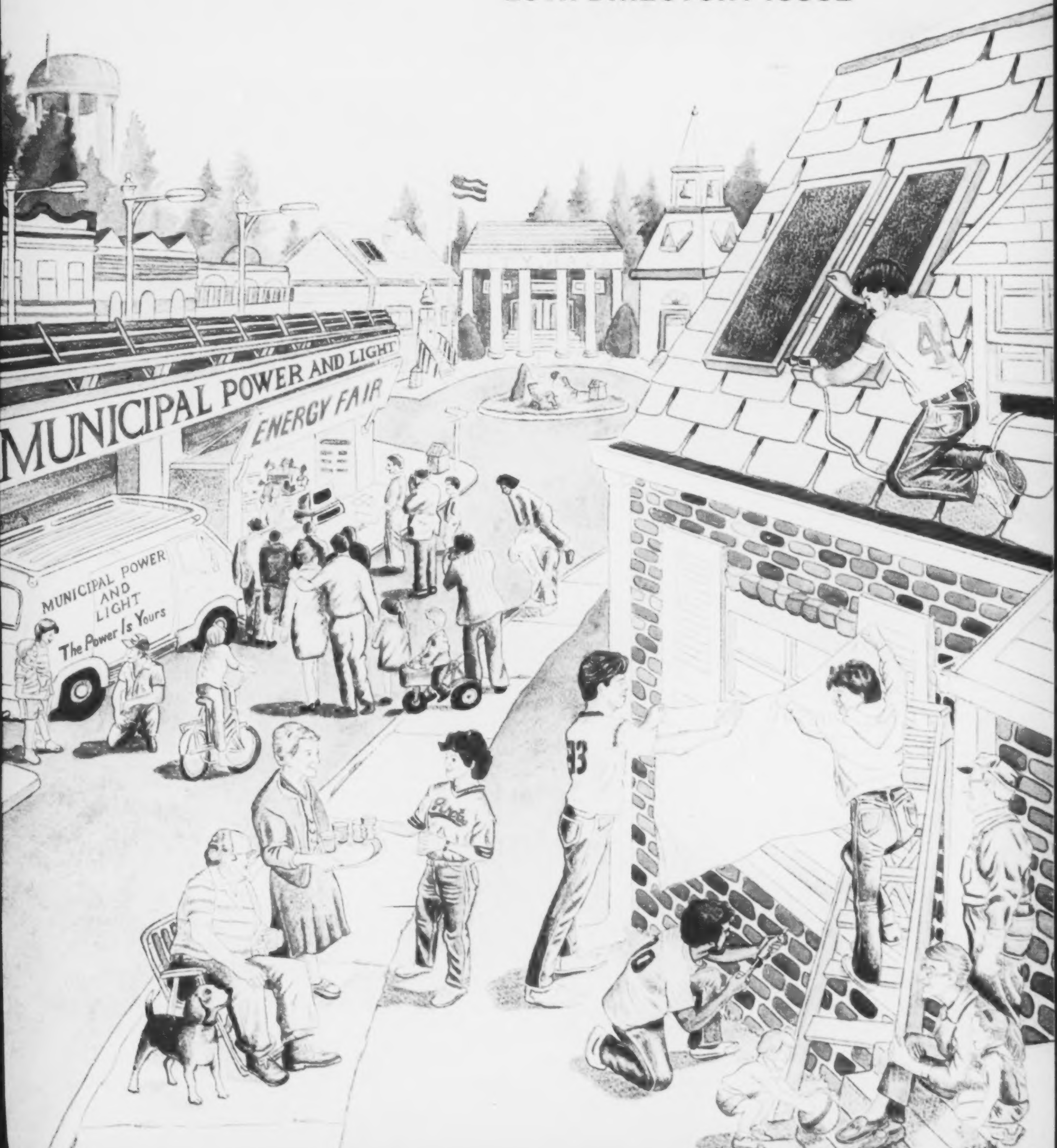
Resolution of cumulative effects and other hydro issues has been difficult for the commissioners. Their role in licensing has been both attacked and eroded in a number of court cases and congressional hearings. Chairman O'Connor has placed CIAP as a top priority and views it as an acceptable solution to the cumulative effects question.

Ideally, the CIAP is a forum to be used for expressing professional opinions and a workable substitute for the intervention process frequently used by resource agencies, tribes and environmental groups. For the CIAP to work, cooperation must be achieved between the resource managers, developers, concerned parties and the FERC.

Small hydro developers, whose actions precipitated the conflicts between the resource advocates and the FERC, have been caught in the middle. Congress handed them the opportunity, through PURPA and the Energy Security Act, to develop hydro sites. Developers enthusiastically pursued this opportunity only to have their proposals sidelined while the FERC and the resource managers wrestle with fundamental licensing and resource protection issues. It has become apparent that developers filing applications on hydro sites in affected cumulative effects basins will not be guaranteed the energy tax credits. Only projects that can remain cost-effective, without the benefit of these credits, will likely be constructed. Thus the prospect is for fewer projects, and less cumulative effect. ✸

1/30/86
A26.25-1

25TH DIRECTORY ISSUE


MUNICIPAL POWER AND LIGHT
ENERGY FAIR
MUNICIPAL POWER AND LIGHT
The Power Is Yours

public power

JANUARY-FEBRUARY 1986
VOLUME 44 NUMBER 1

2 **OUTLOOK AND INSIGHTS by Alex Radin**
Must Congress give serious consideration to transmission issues before electric utilities exert the leadership to resolve the problems?

10 **TRANSMISSION SCENE SHIFTING by David W. Penn**
"The bulk power supply end of the electric utility industry is changing rapidly. . . . Suppliers, regulators and Congress need to take notice."

18 **NEW RETAIL RATE STUDY CONFIRMS BENEFITS OF MUNICIPAL OWNERSHIP by Larry Bruneel**
Some 500 public power systems provided detailed data on rate formation and structure; special rate features are increasing.

22 **LOCAL PUBLIC SYSTEMS BUDGET $5.59 BILLION FOR 1986 PLANT WORK by Jeannie Shenk**
"Transmission and distribution spending is projected to rise 19.8 percent; generation expenditures will decrease an estimated 17.5 percent."

28 **BASIC ELECTRIC SERVICE COSTS LESS IN PUBLIC POWER CITIES by Jeannie Shenk**
"The price of basic residential electric service (500 kWh) averages $10 a month less in large cities if the customers are served by public power."

34 **COURT SHAPES APPA LEGISLATIVE AGENDA by Alan Richardson**
"Two major court victories highlighted public power events involving the federal government in 1985."

51 **ACTION IN STATES ON PUBLIC POWER ISSUES by Anne Marie Gibbons**
"Reports of legislative, regulatory and judicial actions during 1985 show varied agendas patterned to specific state issues."

66 NEW PRODUCTS **74 LETTERS** **75 APPA PAPERS**
76 MEETINGS **77 BOOKS** **77 AD INDEX**

78 **INSIDE APPA by Lori A. Woehrle**
APPA winter meetings Feb. 3-6; APPA awarded WAPA grant; automation theme of E&O workshop; Dan Lewis, former FERC engineer, others join staff.

79 **RADIN TO RETIRE JUNE 30, HOBART WILL TAKE APPA HELM**
After decades of leadership, APPA's Executive Director Alex Radin will step down. Deputy Executive Director Larry Hobart will succeed him.

80 **THE OTHER SIDE by Vic Reinemer**
The tilted playing field gives preference to private utilities.

☞

PUBLIC POWER's 104-page annual Directory, including charts depicting historical relationships among public, private, cooperative and federal electric power systems, begins opposite page 40.

FRONT COVER: Artist Patrick Walsh depicts the typical small town served by public power. More than half of the 2,197 public power communities listed in this directory have less than 2,000 customers.

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Engineering editor, DAN LEWIS
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
MELISSA ANNE BROWN
LARRY BRUNEEL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
LAWRENCE MANSUETI
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
JEANNIE SHENK
DEBORAH SLIZ
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lee; *Assistant advertising manager*, Peggy Douglas; *Circulation manager*, Margaret I. Winfough; *Classified advertising manager*, Julie Anstine

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER *is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily* APPA *policies. For permission to reprint articles write or call the publisher.*

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

New Retail Rate Study Confirms Benefits of Municipal Ownership

by LARRY BRUNEEL
contributing editor, PUBLIC POWER, *and* APPA *staff engineer*

SUBSTANTIAL PRICE ADVANTAGES for residential, commercial and industrial customers, as documented in comparisons of public and private utility rates over the past 37 years, are but part of the benefits of public power rate structures. Low-income households in major cities pay, on the average, $10 less per month for 500 kWh of basic electric service if served by public, rather than private, electric systems.* Moreover, many public power systems of all sizes use pricing mechanisms which benefit average, energy-conscious consumers, as alternatives to the traditional declining block-rate structures which decrease unit costs for larger users.

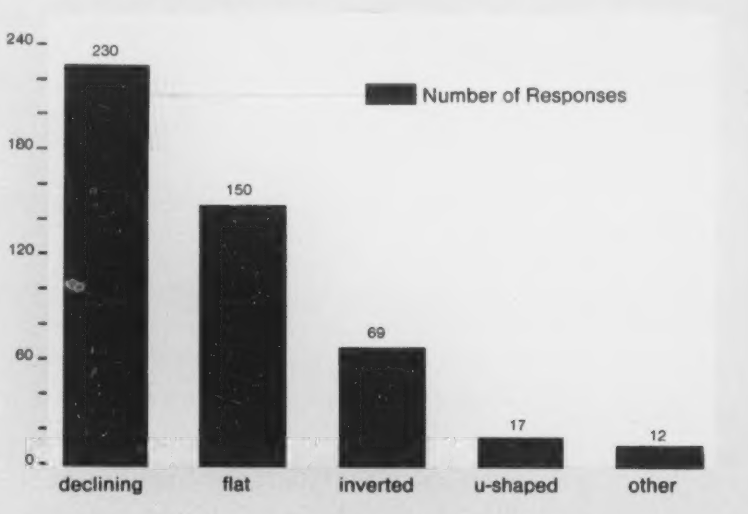
The most common alternatives are flat rates—the same per kWh rate at all levels of consumption—and inverted block rates, where use of more electricity costs more per kWh. Whether declining or inverted, these rates are based on average (also called embedded or historic) costs, or marginal costs—where the electricity sells at a price equal to the additional cost of producing the last unit supplied. Special rate features include time-of-day pricing, which lowers the cost of electricity used at offpeak hours, and load management rates—lowered, for example, when service to water heaters and air conditioners is supplied intermittently to avoid costly peaks.

These and other insights into public power rates can be found in APPA's 1985 Retail Rate Survey, based on responses of about 500 public power systems last year to questions regarding their systems' rates in 1984.

The first major section of the 76-page report provides national statistics and comparisons with APPA's first retail rate survey, conducted in 1984. The second major section lists individual system responses, presented in five categories:

- *General system statistics* includes sales, revenue, number of customers and basis for rate formation.
- *Residential rate information* shows rate structures and other information about this category.

Fig. 1. **Type of Structure**



**See "Basic Electric Service Costs Less in Public Power Cities," by Jeannie Shenk, p. 28.*

Fig. 2. **Typical Monthly Bills** Residential Winter

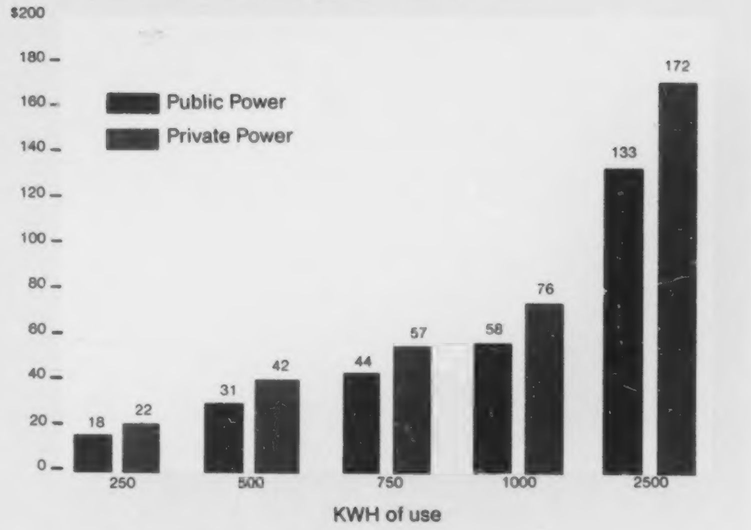
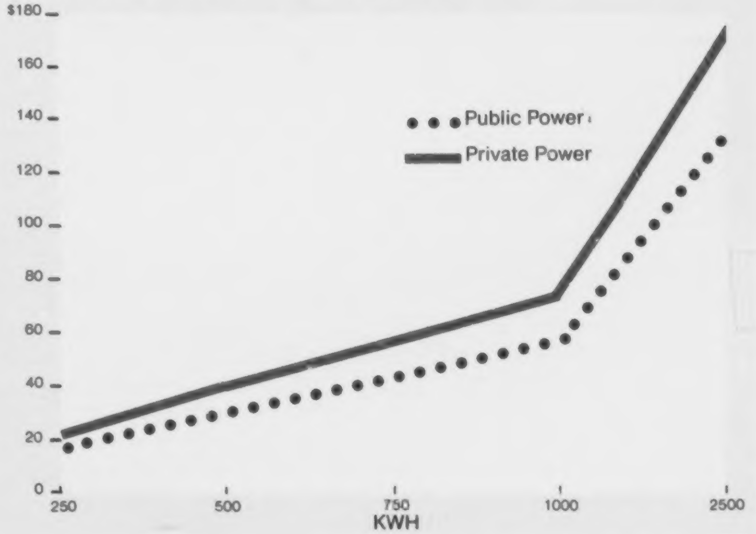


Fig. 3. **Typical Monthly Bill** Winter Residential



- *Residential typical bills* portrays bills of 485 systems.
- *Nonresidential rate information* lists typical bills and other data for commercial and general service schedules.
- *Cogeneration and special rate features* indicates which systems have standard offers for cogenerators, and shows other special rates.

APPA's Retail Rate Survey provides the most comprehensive data available on public power retail rates. To aid in comparisons with other data sources, such as the U.S. Energy Information Administration (EIA), Edison Electric Institute and Canadian Electrical Association, APPA has used EIA form 213 as a standard for typical bill compilation.

Average-Cost Pricing Common

Sixty-five percent of the systems base rates on average costs. Twenty-one percent use a combination of average and marginal costs and 2 percent use marginal costs. The other 12 percent use some other cost basis.

Average and marginal costs can be combined in several ways. For instance, marginal costs could determine a time-of-day pricing design while the revenue requirement would be based on average costs. Another option could use marginal costs for calculating expenses avoided by purchasing from a cogenerator; average costs would be used for other rates.

About 48 percent of the systems use declining block rate structures for residential service. However—as shown in Figure 1—flat, inverted and u-shaped rates are well-represented. (U-shaped rates decline to a certain consumption level, then rise; they are appropriate for a system that has to buy expensive off-system energy.)

Special Features Increasing

With the changes and uncertainty facing public power systems, different rates and programs are being used to give systems more control over their loads, or send more accurate price signals. The most popular feature is the automatic adjustment clause. It directly passes on to consumers certain changes in the costs of service, such as fuel and purchased power. More than 20 percent of the respondents apply these clauses to residential, small nonresidential and large nonresidential customers. Also noteworthy is the relatively large number of load management programs and time-of-day rates.

About 50 systems have residential load management rates and 38 have nonresidential load management rates, 10 and 8 percent respectively. Time-of-day pricing is used for residential customers in 25 systems, for small nonresidential customers in 39 systems, and large nonresidential customers in 55 systems. Nonresidential customers are typically commercial, industrial and other general service customers.

Figures 2 and 3 show the consistent price advantage of public power rates at various levels of consumption.

The survey showed that standardized offers to purchase power from cogenerators are becoming common. One hundred and ten systems said they have a standard offer to purchase power from small (less than 100 kW) cogenerators, and 55 have standard offers to purchase from larger cogenerators.

The average avoided cost rate to purchase power from cogenerators was \$.0239/kWh. The highest avoided cost rate reported was \$.0873/kWh, the lowest \$.0100.

The 1985 Retail Rate Survey has been sent to all utilities that provided information for it. APPA members may obtain the report for \$20, and nonmembers for \$40, by writing or calling APPA's publications department, 2301 M St. N.W., Washington, D.C. 20037 (202/775-8300). ✸

Local Public Systems Budget $5.59 Billion for 1986 Plant Work

by JEANNIE SHENK
contributing editor, PUBLIC POWER, *and* APPA *manager of statistics and data processing*

THE NATION'S LOCAL publicly owned owned electric utilities are budgeting $5.59 billion for new plant additions and improvements in 1986—a decrease of 4.5 percent from the $5.85 billion they reported spending last year.

Total transmission and distribution spending, including substations, conservation and load management, is estimated to increase 19.8 percent over 1985. Total spending for generation is estimated to decline 17.5 percent in 1986, due to decreased spending on coal, nuclear and hydro generation.

A year ago, in PUBLIC POWER's annual survey of spending plans, the local public power systems indicated they expected to spend about $5.6 billion. The difference between projected and actual 1985 expenditures is largely due to an increase in nuclear expenditures by one system. The systems reported spending a total of $2.01 billion on nuclear generation in 1985, instead of the $1.36 billion forecast in 1984.

The public power spending figures are for municipal electric utilities and other local publicly owned systems and do not include federal power agencies, rural electric cooperatives or private power companies.

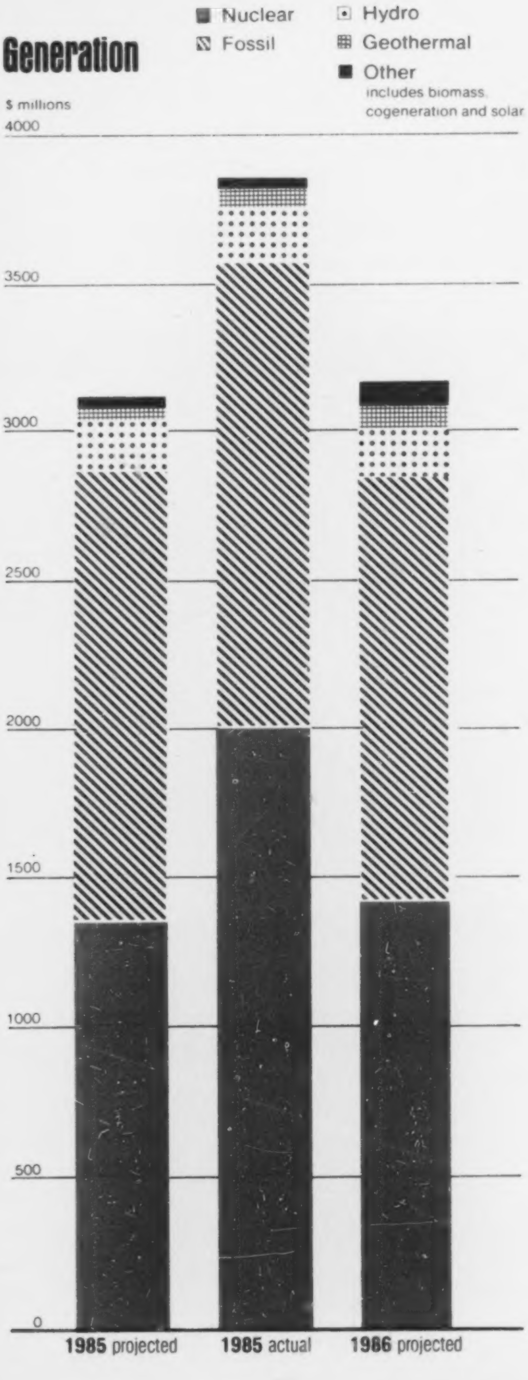
PUBLIC POWER's survey of spending plans includes reports from hundreds of municipal and other local publicly owned electric utilities, estimated to represent 62 percent of the total local public power segment of the electric utility industry on the basis of number of customers served. The reports have been projected to cover all local publicly owned systems. ✹

LOCAL PUBLIC POWER SYSTEM SPENDING, 1985-86

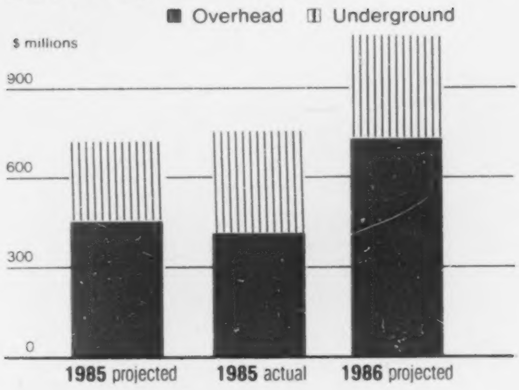
	1985 *Projected*	1985 *Actual*	1986 *Projected*	1985-1986 *% Change*
Distribution				
Overhead below 33 kV	$ 448,619,532	$ 408,253,311	$ 732,622,663	79.5%
Underground below 33 kV	265,910,582	342,743,569	358,878,647	4.7
Total Distribution	714,530,114	750,996,880	1,091,501,310	45.3
Transmission				
Overhead above 33 kV	991,207,808	594,253,860	484,081,052	−18.5
Underground above 33 kV	67,279,083	35,822,439	36,709,098	2.5
Total Transmission	1,058,486,891	630,076,299	520,790,150	−17.3
Conservation & Load Management	53,655,589	57,631,732	78,351,773	36.0
Substations	426,246,979	382,755,002	466,487,810	21.9
Other T&D	283,732,339	209,416,931	276,763,915	32.2
Total T&D	2,536,651,912	2,030,876,844	2,433,894,958	19.8
Generation				
Steam: Coal	1,242,798,743	1,396,076,002	1,230,049,648	−11.9
Oil	61,529,606	43,341,636	64,959,290	49.9
Gas	40,084,015	24,994,211	30,029,636	20.1
Nuclear	1,357,849,321	2,008,491,683	1,421,389,786	−29.2
Biomass	30,917,000	1,350,700	34,726,000	2,471.0
Total	2,733,178,685	3,474,254,232	2,781,154,360	−19.9
Engine: Oil-Fired	12,185,967	6,559,516	406,468	−93.8
Gas-Fired	500,000	7,000	8,000	14.3
Dual-Fired	20,608,773	5,316,945	938,710	−82.3
Gas Turbine	75,380,138	76,371,195	52,449,515	−31.3
Combined Cycle	11,650,000	2,976,719	45,068,700	1,414.0
Hydro	172,547,824	195,339,556	160,306,686	−17.9
Geothermal	70,404,818	48,936,829	89,738,214	−83.4
Cogeneration	4,691,340	349,400	12,407,000	3,450.9
Active Solar	3,561,900	56,626	3,149,800	5,462.5
Other	4,555,000	17,944,106	13,121,400	−26.9
Total Generation	3,109,264,445	3,828,112,124	3,158,748,853	−17.5
GRAND TOTAL	5,645,916,357	5,858,988,968	5,592,643,811	−4.5

Local Public Systems Plant Additions and Improvements

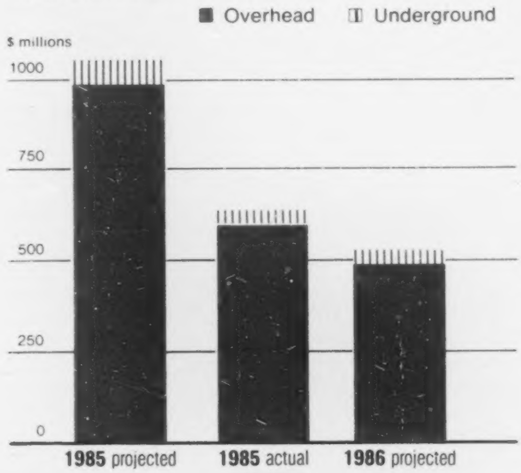
Generation



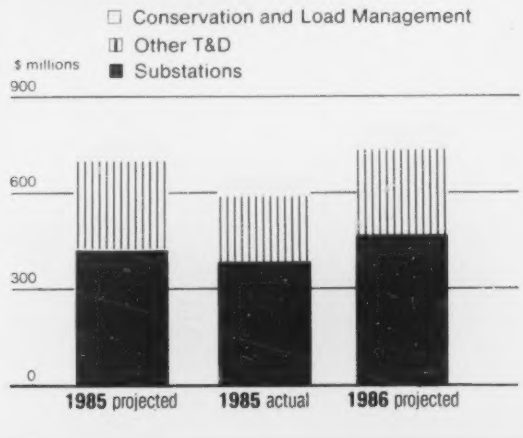
Distribution below 33kv



Transmission above 33kv



Conservation and Load Management, Substations and Other T&D



Basic Electric Service Costs Less in Public Power Cities

by JEANNIE SHENK
contributing editor, PUBLIC POWER, *and* APPA *manager of statistics and data processing*

THE PRICE OF BASIC residential electric service (500 kWh) averages $10 a month less in large cities if the customers are served by public power.

Among the 30 largest U.S. cities, the price is lowest in three cities served by municipally owned electric systems, and highest in eight cities served by investor-owned utilities (IOUs).

The price of 500 kWh of electricity ranged from 2.0 cents per kWh in Seattle, Wash., served by Seattle City Light, to 14.9 cents per kWh in New York, N.Y., served by Consolidated Edison Co.

Three of the cities—Cleveland and Columbus, Ohio, and Phoenix, Ariz.—are served by both public and private utilities. The price of 500 kWh provided by the publicly owned systems was lower in Cleveland and Phoenix and higher in Columbus.

Of the 33 electric systems serving the 30 cities, nine are publicly owned. The average price per kWh charged by these nine systems is 6.5 cents, or $32.50 a month. The 24 private utilities charge an average of 8.5 cents per kWh, or $42.50 a month.

The 500-kWh bill reflects winter-rate charges in January 1985 for lighting, small appliances, refrigeration and cooking. The bills were calculated under rate schedules generally applicable to the majority of customers; utilities may have other schedules that produce bills different than those reported.

The nine public systems and their cents-per-kWh charge for 500 kWh are:

—Seattle (Wash.) City Light, 2.0;
—Nashville (Tenn.) Electric Service, 4.9;
—Memphis (Tenn.) Gas, Light and Water Division, 5.1;
—Los Angeles (Cal.) Department of Water and Power, 7.3;
—San Antonio (Texas) City Public Service Board, 7.4;
—Columbus (Ohio) Division of Electricity, 7.6;
—Cleveland (Ohio) Division of Light and Power, 7.9;
—Jacksonville (Fla.) Electric Authority, 8.0;
—Salt River Project, Phoenix, Ariz., 8.4;

The 8 utility corporations with the most expensive 500-kWh service in the largest cities and their prices in cents per kWh are:

—Consolidated Edison Co., New York, N.Y., 14.9;
—San Diego Gas & Electric Co., San Diego, Cal., 13.0;
—Philadelphia Electric Co., Philadelphia, Pa., 10.8;
—Boston Edison Co., Boston, Mass., 10.8;
—El Paso Electric Co., El Paso, Texas, 10.5;
—Duquesne Light Co., Pittsburgh, Pa., 9.9;
—Arizona Public Service Co., Phoenix, Ariz., 9.3; and
—Commonwealth Edison Co., Chicago, Ill., 8.7.

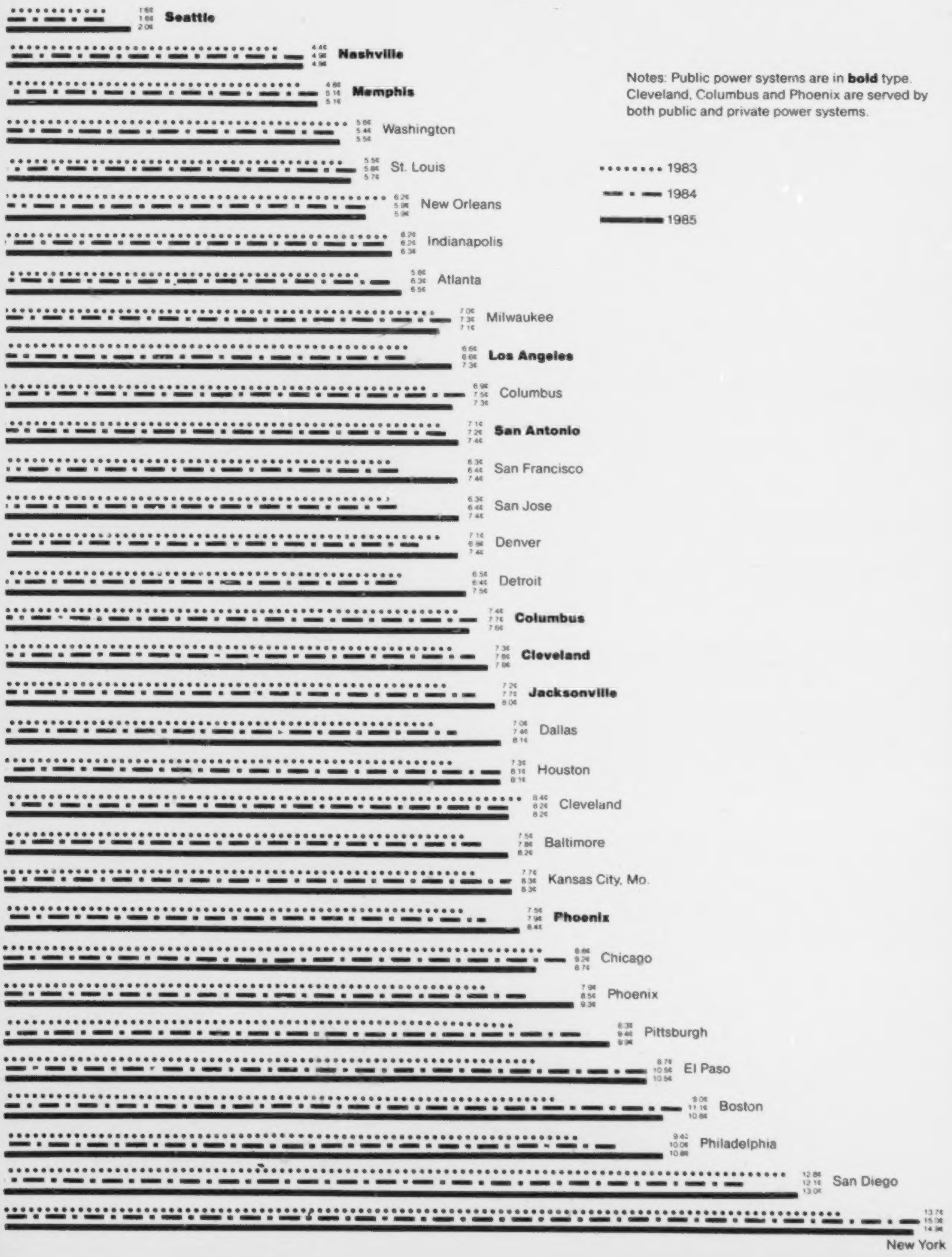
The price of 500 kWh in 1985 increased in 19 of the 33 systems, decreased in seven and stayed the same in seven. In 1984 the price of 500 kWh increased in 24 of the 33 systems, decreased in six and stayed the same in three.

APPA Executive Director Alex Radin, commenting on this comparison of basic electric prices in major cities, noted that only two of the nine public systems—Seattle and Los Angeles—obtain more than one-third of their power from hydroelectricity, which is relatively low cost. Memphis and Nashville, he said, receive all of their bulk power supply from the Tennessee Valley Authority. Hydroelectricity accounts for less than one-sixth of TVA's generation, which is primarily coal-fired.

"I am pleased that public power systems are taking the lead in providing reasonable rates for the category of customers which includes many low-income households," Radin said.

This comparison of electric bills as of January 1985 is based upon utility reports to the U.S. Energy Information Administration. This is the third year that APPA has surveyed basic residential electric prices in major cities. ✸

Price par kWh of 500 kWh of Electricity in the 30 Largest U.S. Cities, Jan. 1, 1985



Notes: Public power systems are in **bold** type. Cleveland, Columbus and Phoenix are served by both public and private power systems.

publicpower 1986 Directory

D-2 About the Directory

STATISTICS D-3 U.S. Electric Utility Statistics

D-4 20 Largest State and Local Publicly Owned Electric Systems—Electric Customers Served, Net Electric Plant, kWh Sales, Electric Revenues

CHARTS D-5 Electricity's Average Cost per kWh 1946-1983
Number of Electric Systems, by Ownership 1890-1985

D-6 Installed Utility Generating Capacity, by Ownership 1898-1984
Kilowatt-hours Generated by Utilities, by Ownership 1902-1984
Kilowatt-hour Sales to Ultimate Customers 1917-1984

D-7 Electric Utility Operating Revenues 1937-1984
Number of Ultimate Electric Utility Customers 1917-1984

D-8 Net Electric Utility Plant 1946-1985
Expenditures by Local Systems for Generation, Transmission and Distribution 1971-1985

D-9 Cost of Production per kWh Sold, Public and Private Utilities 1969-1983
Cost of Transmission per kWh Sold, Public and Private Utilities 1969-1983
Distribution Expenses per kWh Sold, Public and Private Utilities 1969-1983
Administrative and General Expenses per kWh Sold, Public and Private Utilities 1969-1983

D-10 Accounting and Collection Expenses per kWh, Public and Private Utilities 1969-1983
Customer Service, Information and Sales Expenses per kWh, Public and Private Utilities 1969-1983
Installed Generating Capacity of Public Power Systems by Type of Fuel, 1980-1984

LOCAL PUBLICLY OWNED UTILITIES
D-12 Ala., Alaska
D-13 Ariz., Ark.
D-14 Cal.
D-15 Colo.
D-16 Conn., Del., Fla.
D-17 Ga.
D-18 Idaho, Ill.
D-19 Ind.
D-21 Iowa
D-25 Kan.
D-29 Ky.
D-31 La., Maine, Md., Mass.
D-32 Mich.
D-33 Minn.
D-37 Miss.
D-38 Mo.
D-39 Mont., Neb.
D-43 Nev., N.H., N.J., N.M.
D-44 N.Y.
D-45 N.C.
D-46 N.D., Ohio
D-48 Okla.
D-55 Pa., R.I., S.C.
D-53 Ore.
D-55 Pa., R.I., S.C.
D-57 S.D.
D-58 Tenn.
D-59 Texas.
D-60 Utah
D-61 Vt.
D-62 Va., Wash.
D-63 W. Va., Wis.
D-65 Wyo., American Samoa, Canal Zone, Guam, Puerto Rico, Virgin Islands

ORGANIZATIONS OF LOCAL PUBLICLY OWNED UTILITIES D-66 Joint-Action Agencies

D-69 National, Regional, State Associations

OTHER LISTINGS D-71 Federal Power Agencies

D-72 Major Canadian Electric Utilities

D-74 Publicly Owned Cable Communication Systems

APPA CO-OP AND ASSOCIATE MEMBERS D-82 Electric Cooperatives, Corporate Associates

D-84 Individual Associates

INDEX D-92 PUBLIC POWER Magazine Index, 1985

This Directory is part of PUBLIC POWER*, the bimonthly publication of the American Public Power Association, 2301 M St. N.W., Washington, D.C. 20037; 202/775-8300. Copies of the directory are available, from the* APPA *publications department, for $20 to* APPA *members, or $40 to nonmembers. Write or call* PUBLIC POWER *Circulation Manager Margaret Winfough to subscribe to the magazine ($35 a year).*

About the Directory . . .

THE PUBLIC POWER DIRECTORY, published annually, includes information about almost 2,200 local publicly owned electric systems in the United States, organizations of these utilities, federal power agencies, major Canadian electric utilities, publicly owned cable communications systems, identity of APPA members and associate members, and statistics and charts comparing the public, cooperative and private sectors of the electric power industry. The directory includes an index, by author and subject, of articles published in 1985 issues of PUBLIC POWER magazine. Book and film reviews are also listed.

Included in the directory are: municipal electric systems; public utility districts; people's utility districts; public power districts; other types of state and county electric systems; organizations which include local publicly owned electric systems; and federal power agencies. *Not included* in the directory are: private electric power companies and—except for APPA members—rural electric cooperatives.

Listings include the following information where available: name of utility; address, including mailing zip code; telephone number, including area code and local number; chief executive officer, usually superintendent (supt.) or manager (mgr.); number of meters (met.) served; generation (gen.) by type, including steam, gas turbine, internal combustion engine (eng.), hydroelectric (hydro) in kilowatts (kW) or megawatts (MW) of capacity, usually nameplate ratings, and total generation for the latest available year in kilowatt-hours (kWh); power purchased (pur.) at wholesale or sold—for latest full year, either calendar or fiscal—in kilowatt-hours; annual electric revenues (rev.) for the latest available year; and year the system was established. A small five (^{5}) at the end of an entry means the principal data therein was obtained in 1985. A small four (^{4}) means the principal data was obtained in 1984. A small three (^{3}) means the principal data was obtained in 1983. An asterisk (*) denotes APPA membership. A dagger (†) denotes membership in the DEED (Demonstration of Energy-Efficient Developments) program.

Local publicly owned electric utilities are listed alphabetically by state. Municipal systems are listed by the name of the city. Other types of local public power systems—public utility districts, people's utility districts, public power districts and other electric systems owned by units of local or state government—are listed alphabetically by the name of the utility. Public utility districts are usually shown by the name of the county served.

The directory lists local publicly owned electric utilities in 49 states, the Canal Zone, Puerto Rico, Virgin Islands, Guam and American Samoa. There are no local public systems in Hawaii.

Nebraska, the only state in which all electric utility service is consumer-owned—provided by either public or cooperative systems—leads the nation with 156 local publicly owned utilities. In addition 213 communities in Nebraska own municipal electric systems which are operated under lease agreements by Nebraska Public Power District; 22 communities lease their municipal electric utilities to Loup River Public Power District; and six communities lease to other Nebraska systems. Thus the state has a total of 397 local publicly owned electric utilities.

Other leading states in numbers of local, publicly owned systems are: Iowa, 139; Kansas, 125; Minnesota, 125; Wisconsin, 83; Ohio, 83; Missouri, 82; Texas, 75; North Carolina 72; Indiana, 72; Oklahoma, 65; and Tennessee, 63.

All state totals are listed in the adjacent column. The table shows that four states have more than 100 local publicly owned electric utilities, and 14 states have 50 or more local publicly owned power systems.

This is PUBLIC POWER's 25th annual directory. Changes from the previous directories, including the numbers of systems shown for several states and the national total, reflect corrections from the earlier listings as well as changes during the past year.

Although PUBLIC POWER is responsible for the directory, the editors acknowledge with gratitude the many sources of information which have made it possible to compile the most accurate listing of local publicly owned utilities ever published.

These sources include hundreds of local publicly owned utilities which submitted information to PUBLIC POWER on a survey form; records and files of the American Public Power Association, the national service organization of the local publicly owned electric utilities; officials of regional and state associations, joint-action agencies and the federal government; and many individual officials of public power systems and the APPA staff.

Additions and corrections to be included in the next directory should be sent to PUBLIC POWER Directory, 2301 M St. N.W., Washington, D.C. 20037, attention Margaret I. Winfough.

Local publicly owned electric utilities

State	*number*
Alabama	36
Alaska	22
Arizona	21
Arkansas	15
California	41
Colorado	30
Connecticut	6
Delaware	9
Florida	33
Georgia	52
Hawaii	0
Idaho	12
Illinois	41
Indiana	72
Iowa	139
Kansas	125
Kentucky	30
Louisiana	22
Maine	6
Maryland	5
Massachusetts	40
Michigan	41
Minnesota	125
Mississippi	23
Missouri	82
Montana	1
Nebraska	397
Nevada	8
New Hampshire	5
New Jersey	9
New Mexico	7
New York	50
North Carolina	72
North Dakota	11
Ohio	83
Oklahoma	65
Oregon	17
Pennsylvania	35
Rhode Island	1
South Carolina	22
South Dakota	35
Tennessee	63
Texas	75
Utah	36
Vermont	15
Virginia	18
Washington	42
West Virginia	2
Wisconsin	83
Wyoming	12
American Samoa	1
Canal Zone	1
Guam	1
Puerto Rico	1
Virgin Islands	1
Total	2,197

U.S. ELECTRIC UTILITY STATISTICS

Local public system statistics are from the American Public Power Association. Private company figures are from the Energy Information Administration. Rural electric data are from the Rural Electrification Administration. Federal power statistics are compiled from annual reports of the federal power marketing agencies and data reported to APPA.

NUMBER OF SYSTEMS

Private power companies	206
Local publicly owned systems, including municipals, public utility districts and state and county systems	2,197
Publicly owned joint action agencies	57
Rural electrics (including 870 distribution co-ops and 59 generation and transmission co-ops)	930
Federal power agencies	12
TOTAL	3,402

		1984	1984 %	1983	1983 %
NUMBER OF CUSTOMERS	Local public systems	13,403,871	13.6	13,063,000	13.5
	Private	74,294,000	75.4	73,377,000	75.6
	REA borrowers	10,836,358	11.0	10,555,401	10.9
	Federal	14,631	.01	14,353	.01
	TOTAL	98,548,860	100	97,009,754	100
KWH SALES	Local public systems	327,000 P	14.3	317,000	14.6
(to ultimate customers,	Private	1,739,485	75.8	1,638,485	75.6
in millions of kWh)	REA borrowers	166,223	7.2	155,956	7.2
	Federal	61,049	2.7	54,781	2.5
	TOTAL	2,293,757	100	2,166,222	100
ELECTRIC OPERATING REVENUES	Local public systems	$ 19,990,278	11.5	$ 18,078,000	11.5
(in thousands of dollars)	Private	128,420,814	73.7	116,787,730	74.3
	REA borrowers	18,002,160	10.3	15,736,190	10.0
	Federal	7,849,832	4.5	6,572,516	4.2
	TOTAL	$174,263,084	100	$157,174,436	100
NET ELECTRIC PLANT INVESTMENT	Local public systems	$ 48,390,000 P	11.9	$ 45,224,000	12.0
(in thousands of dollars;	Private	287,620,095	70.6	268,769,654	71.1
does not include nuclear fuel)	REA borrowers	40,364,227	9.9	38,027,008	10.1
	Federal	31,193,673	7.7	25,969,792	6.9
	TOTAL	$407,567,995	100	$377,990,454	100
INSTALLED CAPACITY	Local public systems	76,000 P	11.1	74,700	11.1
(in thousands of kW)	Private	514,863	74.9	505,487	75.0
	REA borrowers	27,217	4.0	24,839	3.7
	Federal	69,038	10.0	68,518	10.2
	TOTAL	687,118	100	673,544	100
KWH GENERATION	Local public systems	238,000 P	9.6	229,000	9.7
(in millions of kWh)	Private	1,848,916	75.0	1,764,080	75.0
	REA borrowers	106,753	4.3	93,059	4.0
	Federal	272,885	11.1	264,971	11.3
	TOTAL	2,466,554	100	2,351,110	100

p—preliminary

20 LARGEST STATE & LOCAL PUBLICLY OWNED ELECTRIC SYSTEMS

ELECTRIC CUSTOMERS SERVED—1984

1.	Los Angeles (Cal.) Department of Water and Power	1,247,659
2.	Puerto Rico Electric Power Authority*	1,038,770
3.	San Antonio (Texas) City Public Service Board	411,814
4.	Salt River Project, Phoenix, Ariz.*	408,474
5.	Sacramento (Cal.) Municipal Utility District	360,315
6.	Memphis (Tenn.) Light, Gas and Water Division	318,883
7.	Seattle (Wash.) City Light	299,174
8.	Jacksonville (Fla.) Electric Authority*	244,326
9.	Omaha (Neb.) Public Power District	224,501
10.	Nashville (Tenn.) Electric Service*	223,785
11.	Austin (Texas) Electric Utility*	214,744
12.	Snohomish County Public Utility District, Everett, Wash.	159,032
13.	Knoxville (Tenn.) Utilities Board	135,659
14.	Chattanooga (Tenn.) Electric Power Board	128,248
15.	Orlando (Fla.) Utilities Commission*	121,099
16.	Colorado Springs (Colo.) Department of Public Utilities	120,602
17.	Tacoma (Wash.) City Light	111,349
18.	Nebraska Public Power District, Columbus, Neb.	107,734
19.	Anaheim, City of, Cal.*	90,154
20.	Clark County Public Utility District No. 1, Vancouver, Wash.	85,501

NET ELECTRIC PLANT—1984

1.	Salt River Project, Phoenix, Ariz.*	$3,298,487,972
2.	Los Angeles (Cal.) Department of Water and Power	2,613,903,240
3.	New York Power Authority	2,558,502,000
4.	San Antonio (Texas) City Public Service Board	1,944,123,244
5.	South Carolina Public Service Authority*	1,760,438,578
6.	Municipal Electric Authority of Georgia	1,712,338,000
7.	Puerto Rico Electric Power Authority	1,631,051,000
8.	Nebraska Public Power District, Columbus, Neb.	1,309,711,000
9.	Austin (Texas) Electric Utility*	1,223,871,691
10.	Sacramento (Cal.) Municipal Utility District	1,177,120,396
11.	Omaha (Neb.) Public Power District	926,027,675
12.	North Carolina Eastern Municipal Power Agency	881,239,000
13.	California Department of Water Resources	843,897,000
14.	Platte River Power Authority, Fort Collins, Colo.	644,844,717
15.	Grand River Dam Authority, Vinita, Okla.	637,076,290
16.	Massachusetts Municipal Wholesale Electric Co.	633,555,956
17.	Lower Colorado River Authority, Austin, Texas	627,408,477
18.	Chelan County Public Utility District, Wenatchee, Wash.	625,714,693
19.	Jacksonville (Fla.) Electric Authority*	542,060,521
20.	Seattle (Wash.) City Light	478,912,877

KWH SALES—1984

1.	New York Power Authority	45,100,000,000
2.	Los Angeles (Cal.) Department of Water and Power	19,839,653,000
3.	Salt River Project, Phoenix, Ariz.*	12,092,952,000
4.	Puerto Rico Electric Power Authority*	10,154,667,000
5.	South Carolina Public Service Authority*	9,784,419,000
6.	Memphis (Tenn.) Light, Gas and Water Division	9,132,300,000
7.	San Antonio (Texas) City Public Service Board	9,043,241,000
8.	Sacramento (Cal.) Municipal Utility District	8,899,137,000
9.	Grant County Public Utility District No. 2, Ephrata, Wash.	8,397,359,000
10.	Nashville (Tenn.) Electric Service*	8.175,684,000
11.	Seattle (Wash.) City Light	7,952,046,000
12.	Nebraska Public Power District, Columbus, Neb.	7,928,405,000
13.	Municipal Electric Authority of Georgia	6,559,187,000
14.	Omaha (Neb.) Public Power District	6,220,022,000
15.	Lower Colorado River Authority, Austin, Texas	6,132,547,000
16.	Jacksonville (Fla.) Electric Authority*	5,922,108,000
17.	California Department of Water Resources	5,441,075,000
18.	Tacoma (Wash.) City Light	5,219,248,000
19.	Austin (Texas) Electric Utility*	4,951,983,000
20.	Chattanooga (Tenn.) Electric Power Board	4,702,498,000

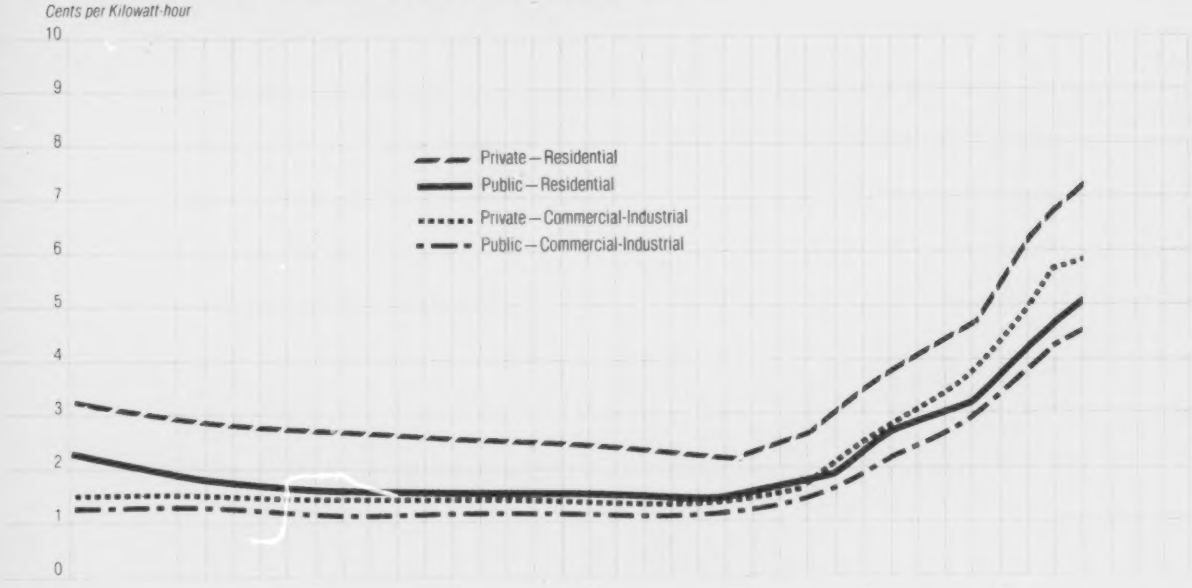
ELECTRIC REVENUES—1984

1.	Los Angeles (Cal.) Department of Water and Power	$1,212,864,006
2.	Puerto Rico Electric Power Authority*	1,080,277,000
3.	New York Power Authority	982,009,000
4.	Salt River Project, Phoenix, Ariz.*	729,192,645
5.	San Antonio (Texas) City Public Service Board	620,951,615
6.	Memphis (Tenn.) Light, Gas and Water Division	439,716,637
7.	Jacksonville (Fla.) Electric Authority*	421,430,076
8.	Nashville (Tenn.) Electric Service*	385,675,053
9.	Austin (Texas) Electric Utility*	379,052,860
10.	South Carolina Public Service Authority*	356,713,533
11.	Sacramento (Cal.) Municipal Utility District	342,352,779
12.	Municipal Electric Authority of Georgia	321,998,000
13.	Omaha (Neb.) Public Power District	301,739,380
14.	Nebraska Public Power District, Columbus, Neb.	300,185,095
15.	Lower Colorado River Authority, Austin, Texas	270,702,184
16.	Chattanooga (Tenn.) Electric Power Board	223,229,811
17.	North Carolina Eastern Municipal Power Agency	213,531,000
18.	Seattle (Wash.) City Light	199,372,504
19.	Knoxville (Tenn.) Utilities Board	192,605,978
20.	Snohomish County Public Utility District, Everett, Wash.	178,158,728

*Fiscal year not coincident with calendar year.

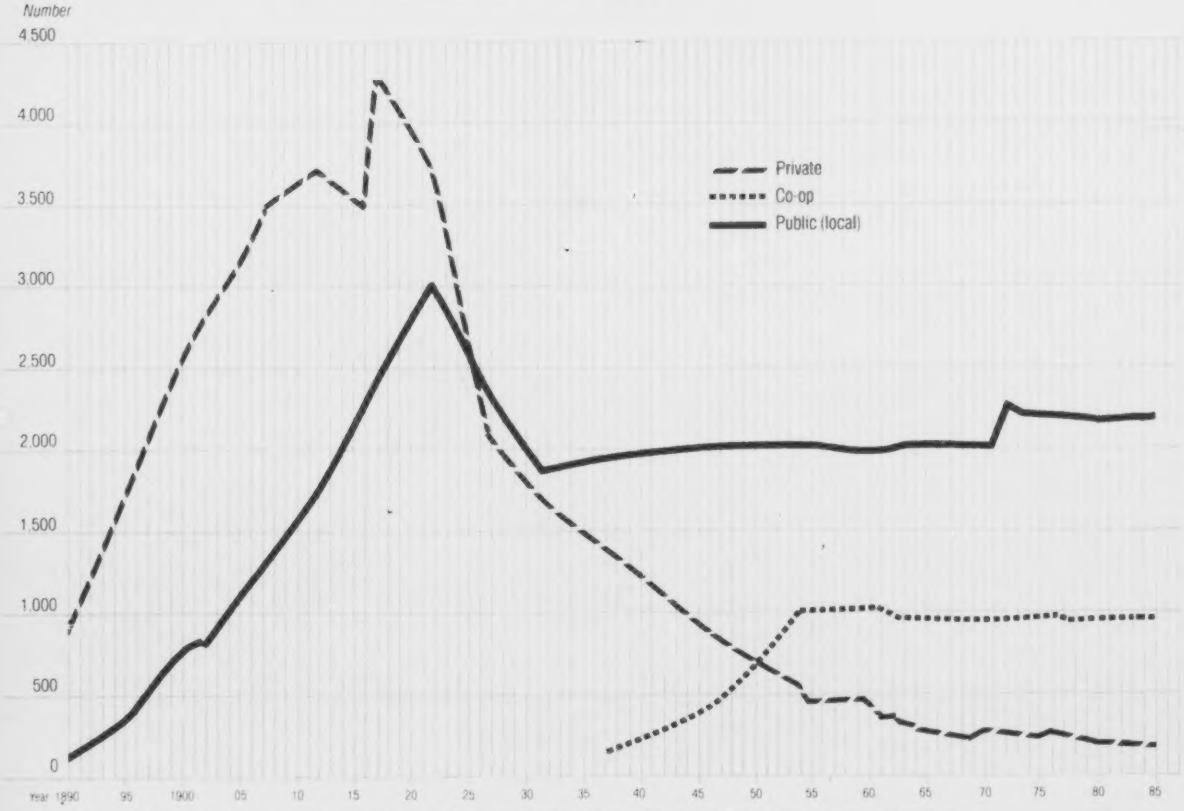
Sources: Annual reports and data reported to APPA.

1. Electricity's Average Cost per kWh 1946-1983 Public (local) and Private Power Systems



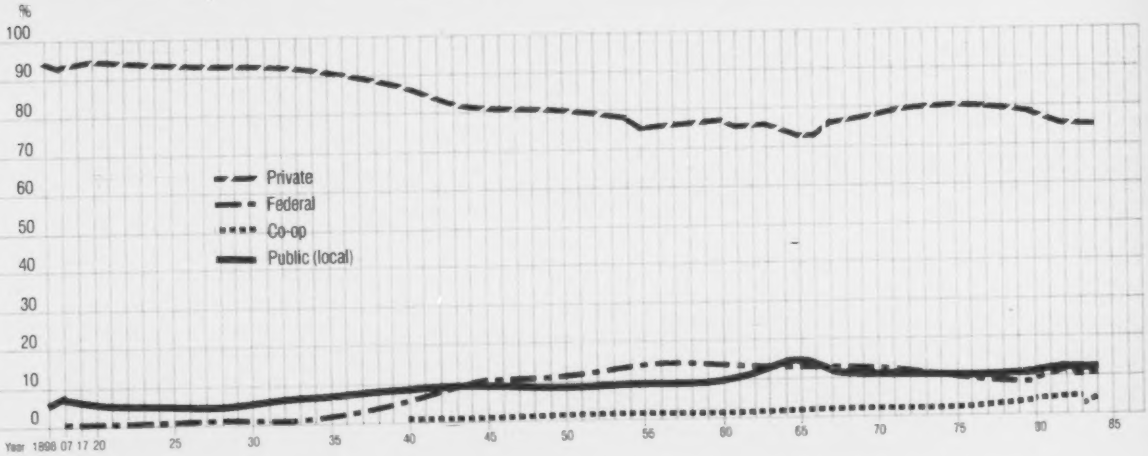
Sources: Energy Information Administration, 1976-1982; Federal Power Commission, 1946-1975.

2. Number of Electric Systems, by Ownership 1890-1985

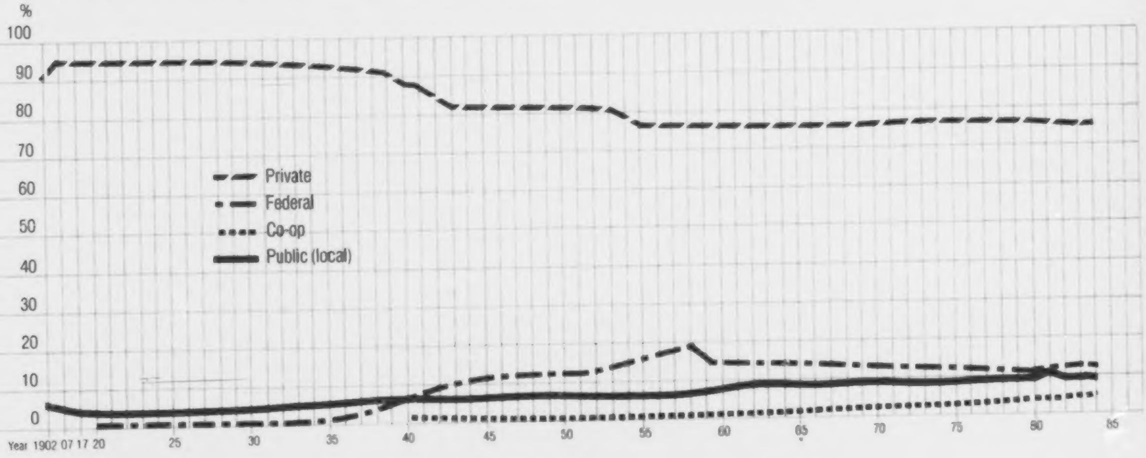


Note: Public systems include municipals, public utility districts and state power authorities, and exclude joint-action agencies and federal agencies.

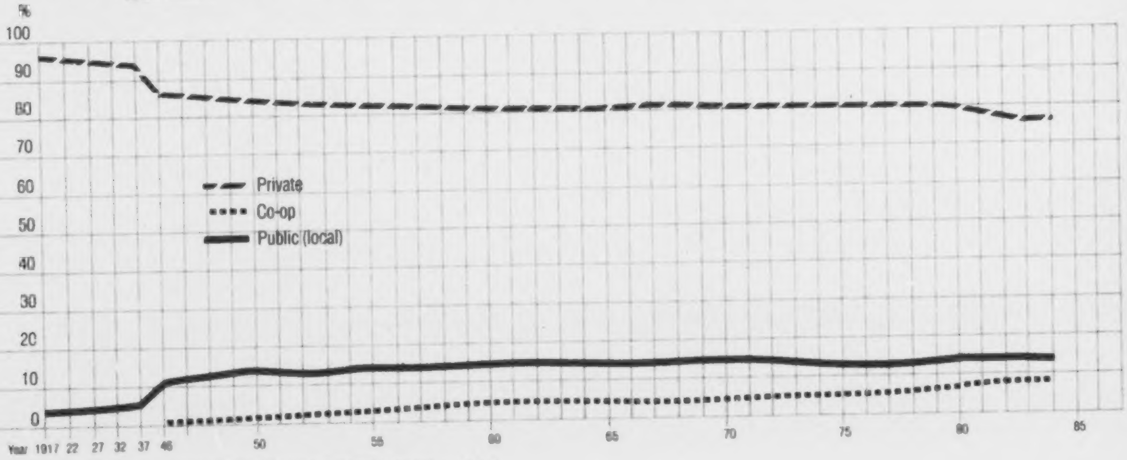
3. Installed Utility Generating Capacity, by Ownership 1898-1984



4. Kilowatt-hours Generated by Utilities, by Ownership 1902-1984

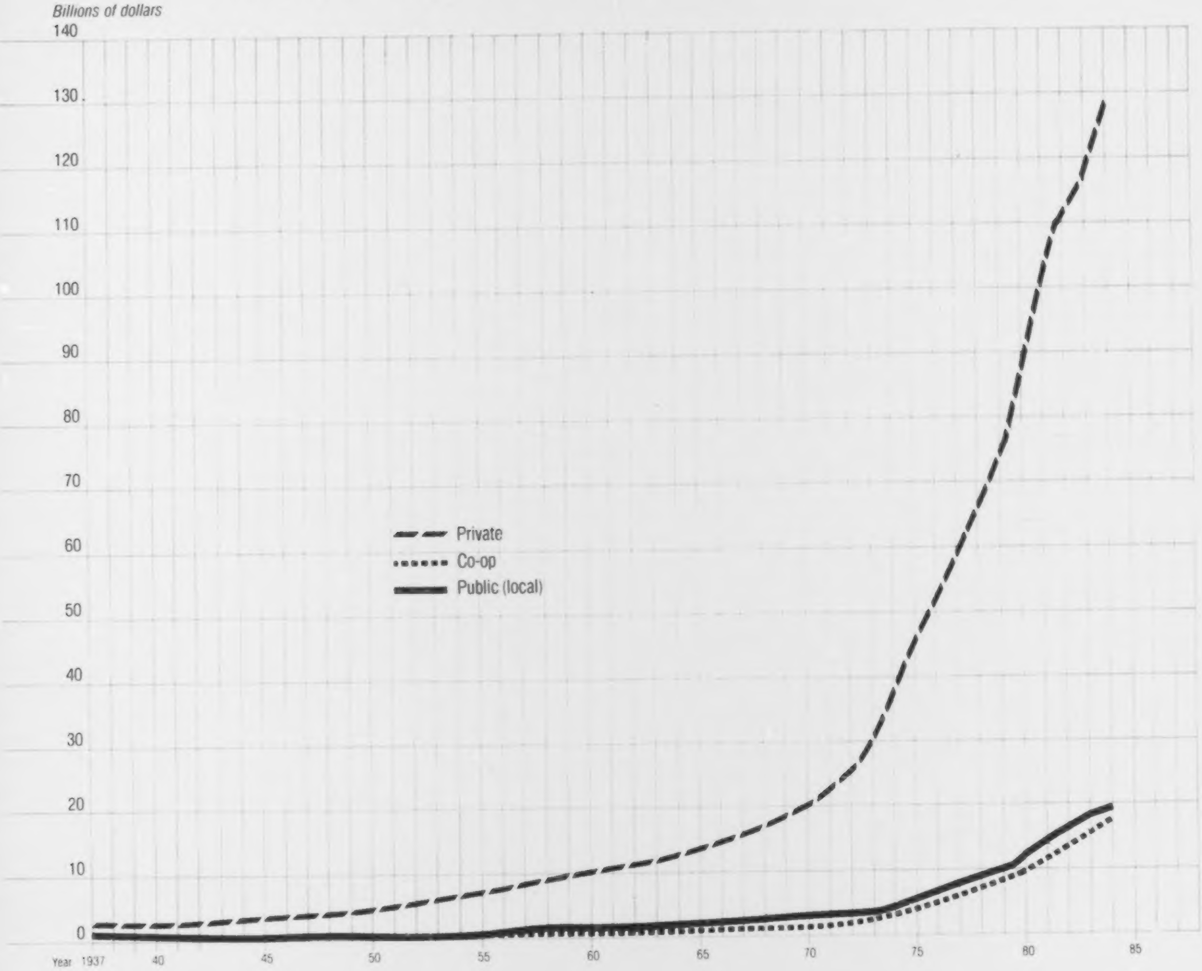


5. Kilowatt-hour Sales to Ultimate Customers 1917-1984

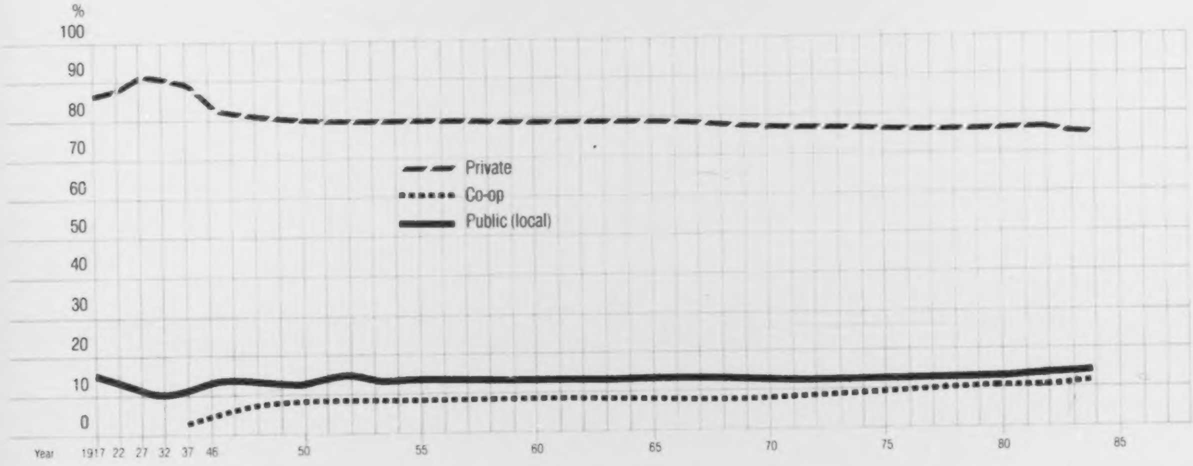


Notes: Sales for resale are included; sales from federal projects are excluded.

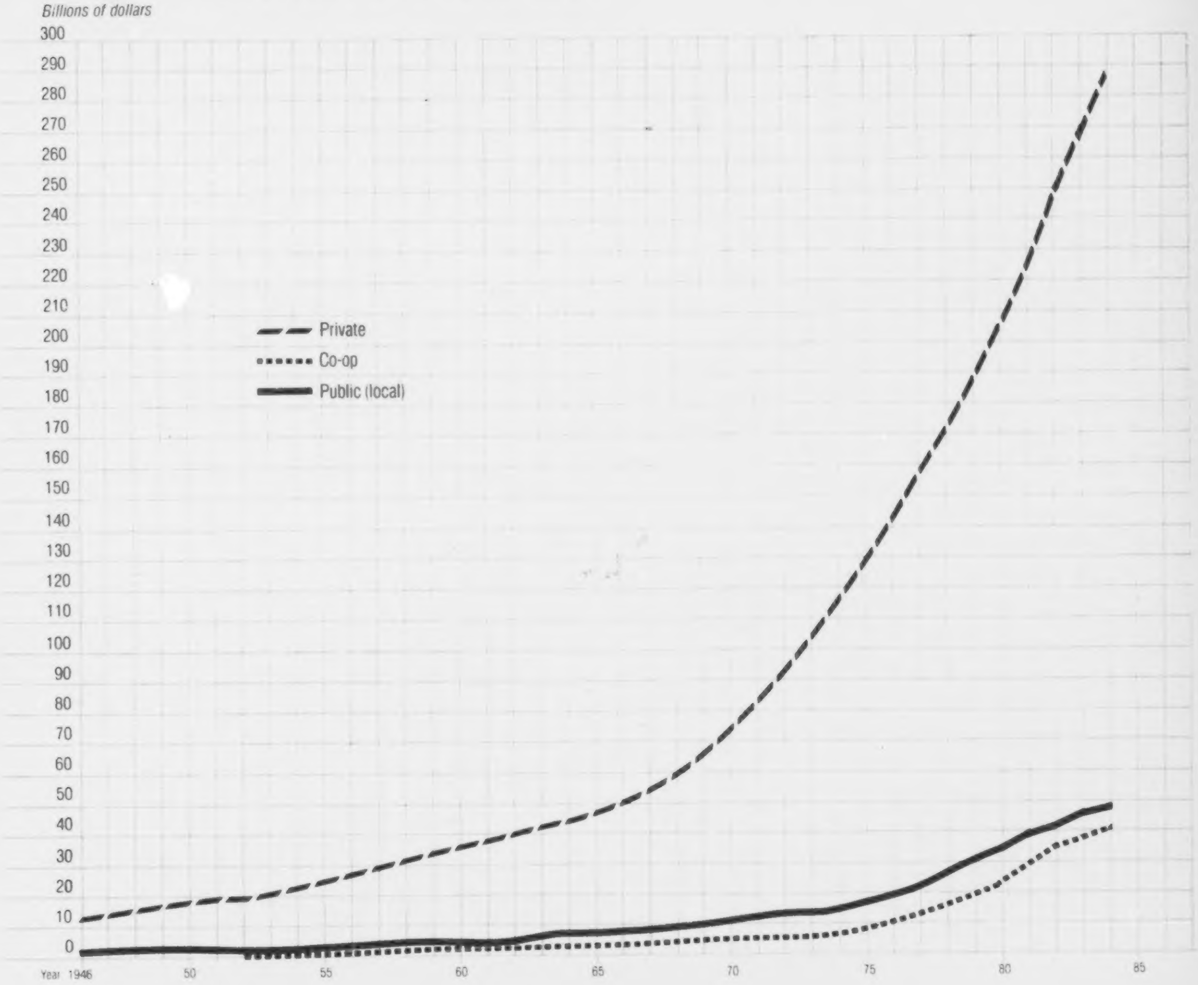
6. Electric Utility Operating Revenues 1937-1984



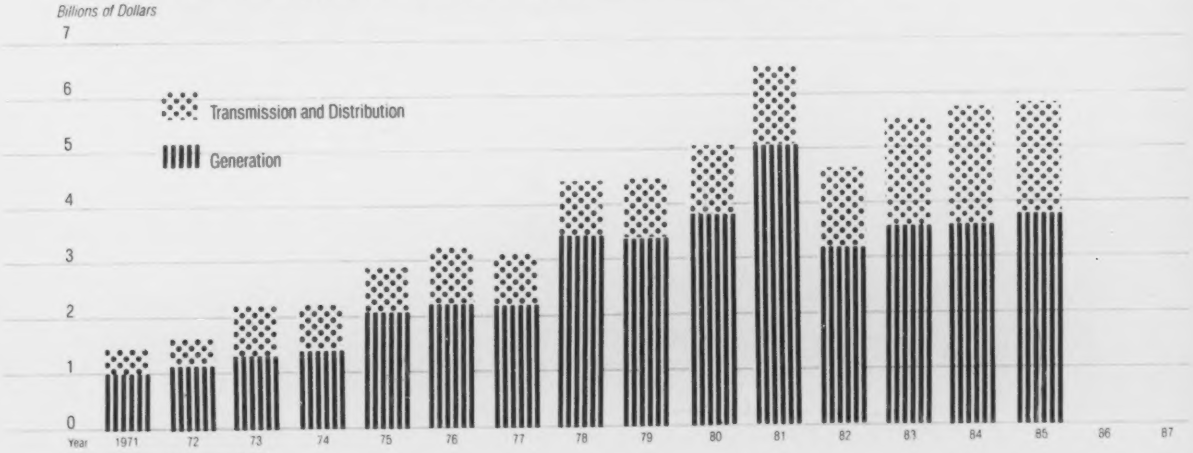
7. Number of Ultimate Electric Utility Customers 1917-1984



8. Net Electric Utility Plant 1946-1984

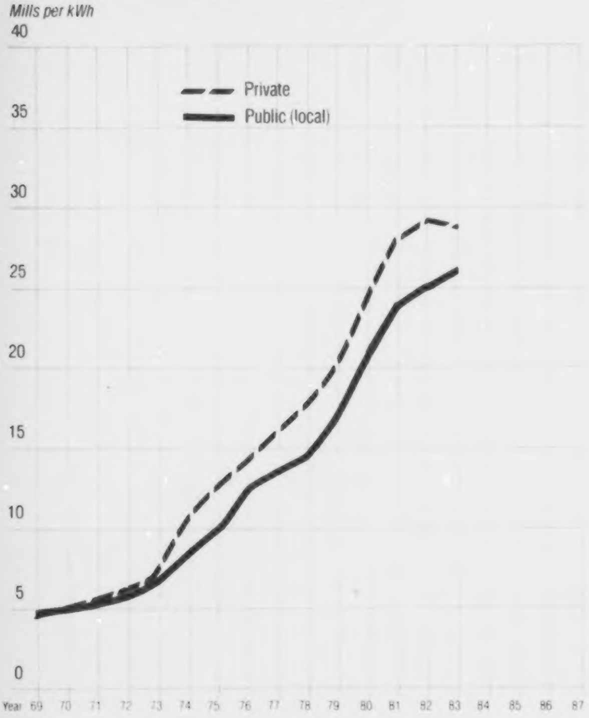


9. Annual Expenditures by Local Public Power Systems for Generation, Transmission and Distribution 1971-1985

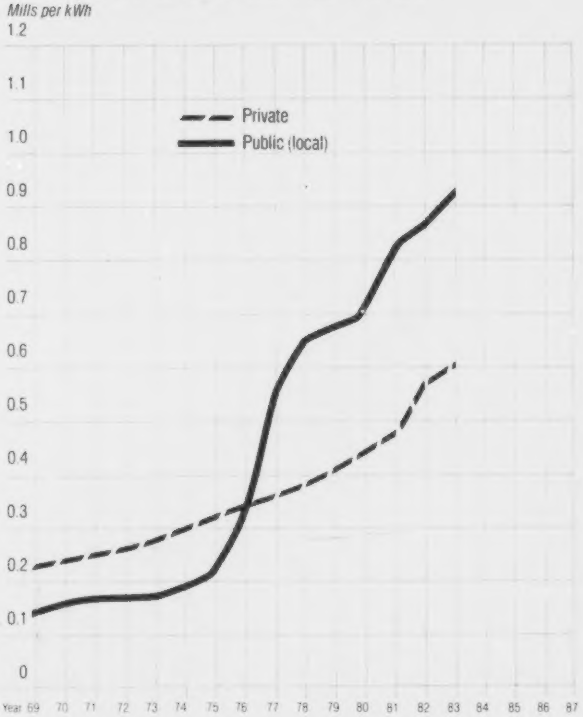


Source: Annual surveys by APPA

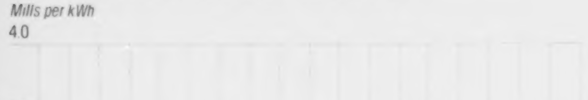
10. Cost of Production per kWh sold, public and private utilities 1969-1983



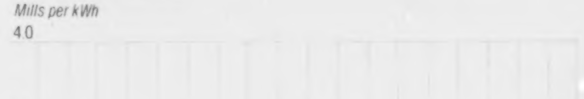
11. Cost of Transmission per kWh sold, public and private utilities 1969-1983



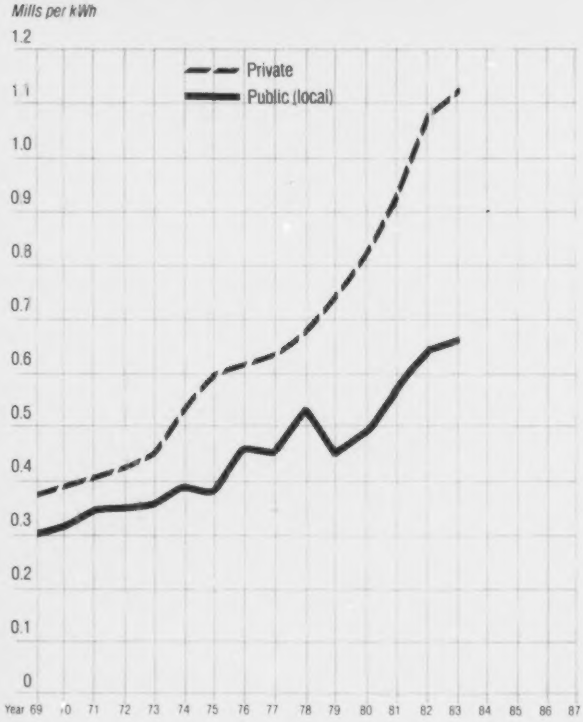
12. Distribution Expenses per kWh sold, public and private utilities 1969-1983



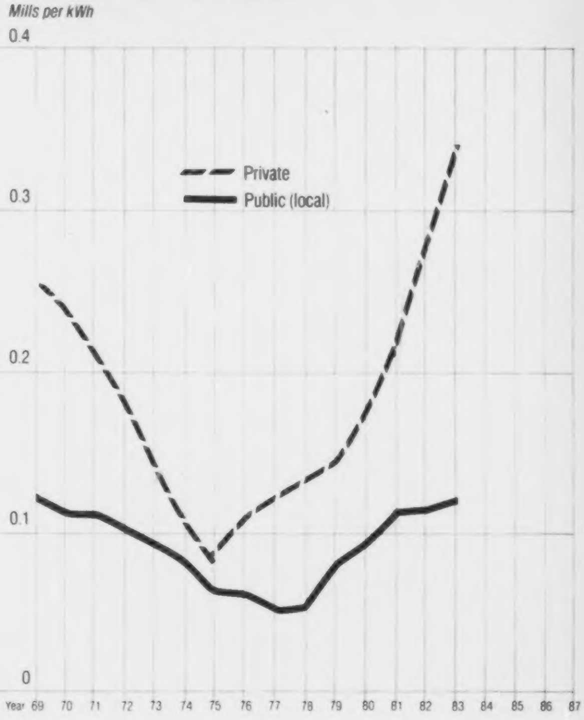
13. Administrative and General Expenses per kWh sold, public and private utilities 1969-1983



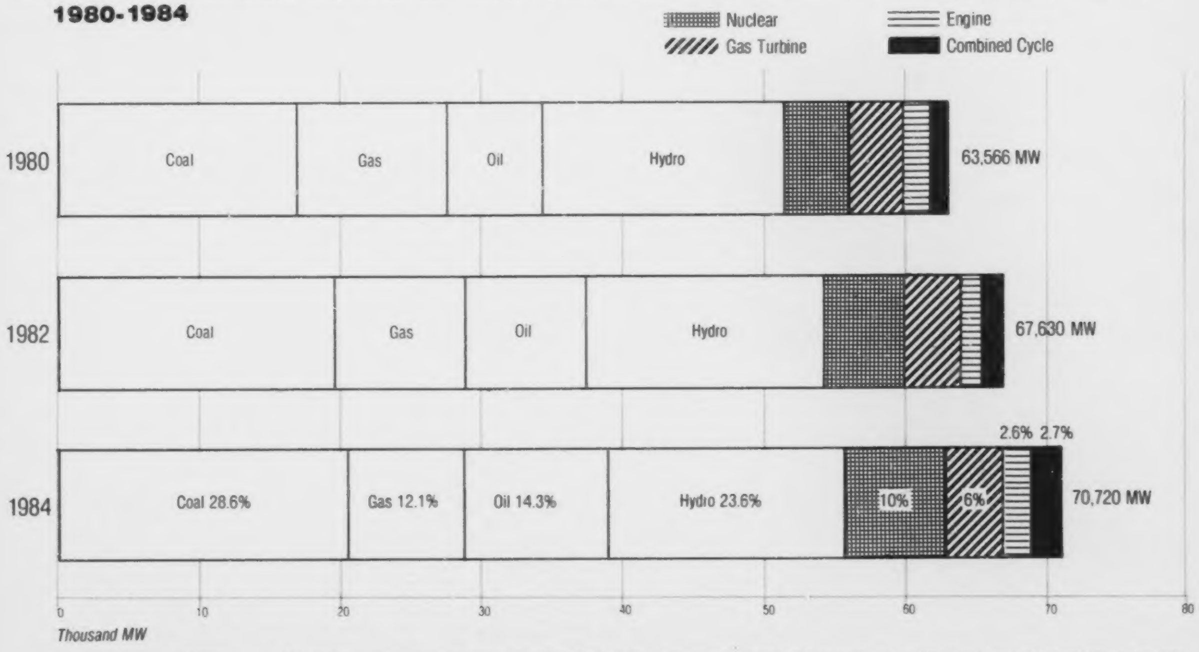
14. Accounting and Collections Expenses per kWh, Public and Private Utilities 1969-1983



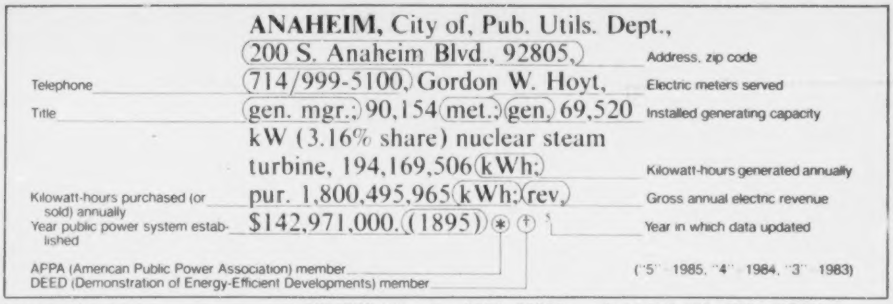
15. Customer Service, Information and Sales Expenses per kWh, Public and Private Utilities 1969-1983



16. Installed Generating Capacity of Public Power Systems in the United States, by Type of Fuel, 1980-1984



Notes: Sources are APPA surveys. Totals represent 96 percent of installed capacity of publicly owned systems in 1980, 94 percent in 1982 and 93 percent in 1984. Totals include wood, waste and geothermal generation.


Address, zip code
Telephone
Electric meters served
Title
Installed generating capacity
Kilowatt-hours generated annually
Kilowatt-hours purchased (or sold) annually
Gross annual electric revenue
Year public power system established
Year in which data updated
APPA (American Public Power Association) member
DEED (Demonstration of Energy-Efficient Developments) member
("5" 1985, "4" 1984, "3" 1983)

ANAHEIM, City of, Pub. Utils. Dept., 200 S. Anaheim Blvd., 92805, 714/999-5100, Gordon W. Hoyt, gen. mgr.; 90,154 met.; gen. 69,520 kW (3.16% share) nuclear steam turbine, 194,169,506 kWh; pur. 1,800,495,965 kWh; rev. $142,971,000. (1895) * † ^{5}

ALABAMA

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

ALBERTVILLE Utils. Board, Box 130, 35950, 205/878-3761, Jim Stewart, gen. mgr.; 7,245 met.; pur. 344,536,104 kWh; rev. $15,441,508. (TVA) (1938)^{*5}

ALEXANDER CITY Light Dept., Box 552, 35010, 205/329-8426, Terry G. Bolan, supt; 4,671 met; no gen.; pur. 94,046,380 kWh; rev. $4,792,833. (1930s)^{*5}

ANDALUSIA Util. Dept., Box 790, 36420, 205/222-1332, 4,512 met.; no gen.; pur. 140,309,200 kWh; rev. $6,303,471. (1944)^{5}

ATHENS, City of, Elec. Dept., Box 1089, 35611, 205/232-3740, T.T. Craven, mgr.; 20,773 met.; no gen.; pur. 463,521,295 kWh; rev. $20,371,994. (TVA) (1935)^{5}

BESSEMER Utils., 1600 First Ave., N., Box 846, 35021, 205/424-2304, W. G. Pettey Jr., util. mgr.; 12,864 met.; pur. 276,224,278 kWh; rev. $12,021,641. (TVA) (1939)^{*4}

BRUNDIDGE Elec. Dept., Box 338, 36010, 205/735-2321, Jack V. Taylor, mgr.; 1,300 met.; no gen.; pur. 22 million kWh; rev. $1,200,000 (1950)^{5}

COURTLAND Elec. Dept., Box 160, 35618, 205/637-2707, Rudolph McCarley, supt.; 796 met., pur. 14.6 million kWh; rev. $695,783. (TVA) (1935)^{4}

CULLMAN Power Bd., 204 2nd Ave. NE, Drawer 927, 35056, 205/734-2343, Jimmy Garrett, mgr.; 6,902 met.; pur. 256,406,842 kWh; rev. $11,978,199. (TVA) (1947)^{*5}

DECATUR Utils., Box 2232, 35602, 205/552-1440, George H. Godwin, gen. mgr.; 19,320 met.; pur. 1,106,051,000 kWh; rev. $45,426,931. (TVA) (1939)^{5}

DOTHAN, City of, Elec. Dept., 126 N. St. Andrews St., 36303, 205/793-0344, James C. Kilgore, water & elec. supt.; 22,136.; no gen.; pur. 701,861,767 kWh; rev. $36,172,823. (1903)^{*5}

ELBA Water & Elec. Dept. 200 Buford St., 36323, 205/897-2261, Paul Cherry, supt., 1,800 met.; pur. 43,000,000 kWh; rev. $2,574,000.^{5}

EVERGREEN Mun. Light Dept., 36401, 205/578-1574, Gordon Wright, supt.; 2,000 met.^{5}

FAIRHOPE City of, Drawer 429, 36533, 205/928-2136, Aaron Norris, supvr.; 3,760 met.; no gen.; pur. 73,317,831 kWh; rev. $4,055,197. (1923)^{*5}

FLORENCE, Elec. Dept., Box 877, 110 W. College St., 35631, 205/764-7271, J. H. McClanahan, mgr.; 34,338 met.; pur. 798,964,971 kWh; rev. $37,209,692. (TVA) (1936)^{*4}

FORT PAYNE Improvement Authority, 118 Godfrey Ave. S., Box 617, 35967, 205/845-0671, Richard C. Griffin, mgr.; 6,526 met.; no gen.; pur. 193,073,773 kWh; rev. $8,991,999. (TVA) (1940)^{5}

GUNTERSVILLE Elec. Bd., 325 Gunter Ave., 35976, 205/582-5691, C. H. Gordon, mgr.; 4,728 met; pur. 160,034,007 kWh; rev. $7,347,507. (TVA) (1939)^{*4}

HARTFORD Water & Light Dept., 203 W. Main St., 36344, 205/588-2245; H. R. Lee, supt.; 1,150 met.; no gen.; pur. 22 million kWh.^{4}

HARTSELLE, City of, Elec. Bd., Box 847, 35640, 205/773-2588, Max King, mgr.; 4,333 met.; pur. 113,810,985 kWh; rev. $5,323,949. (TVA) (1938)^{5}

HUNTSVILLE Utils., Box 2048, 35804, 205/533-0300, E. E. Cobb, gen. mgr.; 83,386 met.; pur. 2,623,920,011 kWh; rev. $114,946,196. (TVA) (1941)^{*5}

LAFAYETTE, City of, Mun. Light Plant, 50 Avenue A, Box 87, 36862, 205/864-9812, Clyde Eugene Lamb, elec. dept. supt.; 1,302 met.; no gen.; sales 17 million kWh; rev. $1,057,734. (1911)^{3}

LANETT, City of, Box 290, 36863, 205/644-2141, Charles H. Jennings, city mgr.; 3,199 met.; no gen.; pur. 43,763,200 kWh; rev. $2,383,606.^{5}

LUVERNE Electric Board, Box 249, 36039, 205/335-3741, Bobby Langford, supt.; 1,537 met.; no gen.; pur. 32,250,000 kWh; rev. $1,840,000.^{5}

MUSCLE SHOALS Elec. Bd., 1000 Avalon Ave., 35661, 205/383-6681, T. D. Lasater, mgr.; 4,246 met.; no gen.; pur. 167,995,100 kWh; rev. $8,175,080. (TVA) (1933)^{*5}

OPELIKA Light & Power Dept., 1010 Ave. C, Box 390, 36801, 205/745-4681, B. J. Douglas, dir.; 8,871 met.; no gen.; sales 230,728,000 kWh; rev. $11,516,978. (1910)^{*3}

OPP, City of, Utils. Bd., Box 311, 36467, 205/493-4572, Charles McGowan, mgr.; 3,091 met.; no gen.; pur. 62,800,000 kWh; rev. $4,100,000. (1943)^{5}

PIEDMONT, City of, Elec. Sys., Box 112, 36272, 205/447-9007, Kenneth Jackson, supt.; 2,200 met.; no gen.; pur. 38 million kWh; rev. $1.7 million.^{5}

RIVIERA UTILITIES, 413 E. Laurel Ave., Box 550, Foley 36536, 205/943-5001, H. Sewell St. John Jr., gen. mgr.; 16,149 met.; no gen.; pur. 308,123,339 kWh; rev. $18,955,491. (1941)^{*5}

ROBERTSDALE, City of, Box 429, 36567, 205/947-2144, Paul N. Edhegard, supt. of utils.; 1,303 met.; no gen.; pur. 27,912,000 kWh; rev. $1,352,889. (1924)^{5}

RUSSELLVILLE Elec. Bd., Box 1148, 35653, 205/332-3850, Chris Clifton, dir. ops.; 4,031 met.; no gen.; pur 105.2 million kWh; rev. $4,995,444. (TVA) (1938)^{4}

SCOTTSBORO Electric Power Bd., Box 399, 35768, 205/574-2680, L. E. Price, mgr.; 6,766 met.; pur. 278,302,080 kWh; rev. $12,644,030. (TVA) (1939)^{*4}

SHEFFIELD Power, Water & Gas Dept., Box 580, 35660, 205/383-5221, R. A. Azbell, gen. mgr.; 15,523 met.; no gen.; pur. 378,121,755 kWh; rev. $19,997,512. (TVA) (1936)^{*5}

SYLACAUGA, City of, Utils. Bd., Box 207, 35150, 205/249-0372, William T. Scott, mgr.; 5,469 met.; no gen.; pur. 126,992,195 kWh, rev. $7,509,489. (1955)^{*5}

TARRANT CITY Elec. Dept., 1000 Ford Ave., Box 6536, 35217, 205/841-1721, Robert J. Burns, acting mgr.; 2,544 met.; pur. 50 million kWh; rev. $2,434,014. (TVA) (1933)^{4}

TROY Elec. Dept., Box 549, 36081, 205/566-2130, G. H. Reeves, supt.; 4,575 met.; no gen.; pur. 140,864,000 kWh; rev. $6,160,619. (1895)^{3}

TUSCUMBIA, City of, Elec. Dept., Box 269, 35674, 205/383-0321, Charles P. Ricks, mgr.; 3,715 met.; no gen.; pur. 89,403,512 kWh; rev. $4,148,300. (TVA) (1937)^{*5}

TUSKEGEE, City of, 101 Fonville St., 36083, 205/727-6227, William Turner Jr., supt.; 6,820 met.; no gen.; pur. 2,453,470 kWh; rev. $5,748,000. (1939)^{5}

ALASKA

AKUTAN ELECTRIC UTILITY, Box 557, Dutch Harbor 99692, 907/698-2228, Jacob M. Stepetin, mayor. 40 met.; gen. 180 kW diesel, 86,000 kWh; pur. none; rev. (six months) $20,000. (1982)^{3}

ALASKA POWER AUTHORITY, 334 West 5th Ave., Anchorage, 99501, 907/276-0001, Robert D. Heath, exec. dir.; gen. 74,000 kW hydro, 390 million kWh; pur. none; $5.5 million. (1976)^{*5}

ANCHORAGE Mun. Light & Power, 1200 E. First Ave., 99577, 907/279-7671, Thomas R. Stahr, gen. mgr.; 21,929 met.; gen. 308,600 kW, 33,300 kW waste heat comb. cycle; 152,900 kW gas combustion turbine, 122,400 kW gas (comb cycle); 669,110,000 kWh; pur. 98,803,000 kWh; rev. $40,718,214. (1932)^{*5}

CHIGNIK, City of, 99564, 907/749-2207, Arlene Kopun, clerk; 40 met. (1981)^{3}

---

* denotes APPA membership.
† denotes DEED (Demonstration of Energy-Efficient Developments) membership.

FAIRBANKS Mun. Utils.System, Box 2215, 99707, 907/456-1000, Virgil Gillespie, gen. mgr.; 6,109 met.; gen. 65,100 kW, 28,500 kW coal-fired steam, 23,100 kW oil, gas turbine, 5,250, kW oil (comb. cycle), 8,250 kW oil (combus. eng.). 159,671,000 kWh; pur. 8,579,200 kWh; rev. $10,475,744. (1949)[4]

KETCHIKAN Pub. Utils., 334 Front St., 99901, 907/225-3111, ext. 330, Richard D. Newland, util. mgr.; 6,341 met.; gen. 49,250 kW, 15,450 kW diesel, 33,800 kW hydro, 110,952,200 kWh; pur. 26,934,800 kWh; rev. $7,831,486. (1935)[5]

KING COVE, City of, Box 37, 99612, 907/497-2340, Cynthia Samuelson, city clerk; 125 met.; 600 kW eng.; pur. none; $136,000. (1950)[3]

KLUKWAN INDIAN VILLAGE, Box 220, Haines 99827, 907/766-2805, Joe Hotch Jr., mgr.; 50 met.; diesel gen.; pur. none. (1968)[3]

KOTLIK, City of, 99620, 907/899-4111, Benny Kamkoff, mgr.; 96 met. (Billing by United Utilities, Box 4-2730, Anchorage 99509.) (1982)[3]

KUIGGLUUM KALLUGVIA, c/o Kwethluk Inc., Box 80, Kwethluk 99621, 907/757-6612, Frank D. Nicori, mgr.; 117 met; 210 kW oil eng.; sales 63,547 kWh; rev. $152,017. (1977)[4]

MANOKOTAK, Village of, 99628, 907/842-5978, Moses Toyukak, mayor; 75 met. (1976)[3]

METLAKATLA Power and Light, Box 346, 99926, 907/886-4451, Bill Kaltenekker; 600 met.; gen. 7,500 kW, 3,000 kW hydro, 4,500 kW oil-fired eng., 20,000,000 kWh; rev. $1.5 million. (1927)[5]

NOME Joint Util. System, Box 70, 99762, 907/443-5288, Dean Wolfe, mgr.; 1,800 met.; gen. 6,800 kW eng., 21,000,000 kWh; pur. none; rev. $5,375,000. (1960)[5]

NORTH SLOPE BOROUGH UTILITIES, Box 79, Barrow 99723, 907/852-2611, ext. 207; 740 met.; Jim Wilcox, acting util. mgr.; gen. 5,435 kW eng., 7 million kWh, pur. none; rev. $1,530,545. (1980)[3] North Slope system operates in seven villages: Anaktuvuk Pass, Atqasuk, Kaktovik, Nuiqsut, Point Hope, Point Lay and Wainwright.)

PETERSBURG Mun. Light and Power, Box 329, 99833, 907/772-4203, Howard Thacke, supt.; 1,415 met.; gen. 7,100 kW, 2,000 kW hydro, 5,100 kW eng., 22,265,977 kWh; pur. none; rev. $2,067,847. (1924)[3]

ST. PAUL, City of, Mail Pouch #1, 99660, 907/546-2331, Vern McCorkle, city mgr.; 350 met.; gen. 1,125 kW diesel (eng.); pur. none; rev. $2 million. (1983)[5]

SEWARD Elec. Util., Box 167, 99664, 907/224-3331, Paul Diener; 1,467 met.; gen. 5,500 kW oil-fired eng.; pur. 31,567,200 kWh; rev. $2,036,282. (1955)*[4]

SITKA Mun. Utils., 304 Lake St., 99835, 907/747-6633, Jim Taylor, elec. supt.; 4,110 met.; gen. 34,100 kW, 7,500 kW eng., 26,600 kW hydro, 113,432,100 kWh; pur. none; rev. $5,659,400. (1941)[5]

THORNE BAY, Box 110, 99950, Susan Chapin, city clerk, 120 met.; 850 kW diesel (1983)[4]

TLINGIT-HAIDA REGIONAL ELECTRIC AUTHORITY, Box 210149, Auke Bay, 99820, 907/789-3196; Jarrett Broughton, mgr.; 921 met.; gen. 5,134 kW diesel (steam); 7,262,758 kWh; pur none; rev. $2.5 million. (1977)[5]

UNALASKA Elec. Util., Pouch 89, 99685, Nancy Gross, city mgr.; 360 met.; gen. 2,100 kW oil-fired eng.; rev. $1,016,9211. (1970)[5]

WRANGELL Light & Power Dept., Box 531, 99929, 907/874-2381, Frank Fields, supt.; 1,170 met.; gen. 24-MW hydro, 3 million kWh; pur. 1.3 million kWh; rev. $1,698,688.[5]

ARIZONA

ARIZONA POWER AUTHORITY, 1810 W. Adams St., Phoenix, 85007, 602/255-4263, Lester S. Ormsby, admn.; 17 met. (wholesale); no gen., pur. 692,932,415 kWh; rev. $6,848,439. (1944)*[5]

CORTARO-MARANA IRRIGATION DISTRICT, 13864B N. Sandario Rd., Marana, 85238, 602/682-3233; Robert Condit, mgr.; no gen.; pur. 15,200,000 kWh.[5]

ELECTRICAL DISTRICT NO. 1, Box 870, Stanfield, 85272-0870,Thomas N. Caywood, pres.; 69 met.; pur. 21,499,991 kWh; rev. $1,056,827.[5]

ELECTRICAL DISTRICT NO. 2, Pinal County, Box 548, Coolidge, 85228, 602/723-7741, William J. Metheny, gen. mgr.; 2,379 met.; no gen.; pur. 180,788,424 kWh; rev. $6,779,929 (1926)*[5]

ELECTRICAL DISTRICT NO. 3, Pinal County, Box 870, Stanfield, 85272-0870, 602/424-3337, W. A. Dunn, bd. chmn.; 495 met; no gen.; pur. 47,559,700 kWh; rev. $7,194,493. (1961)*[5]

ELECTRICAL DISTRICT NO. 4, Box 605, Eloy, 85231, 602/466-7336, James Sweeney, mgr.; 400 met.; no gen.; pur. 128.8 million kWh; rev. $1,420,319. (1936)[4]

ELECTRICAL DISTRICT NO. 5, Pinal County, Box 8, Red Rock, 85245, 602/682-3442, William D. Woehlecke, gen. mgr.; 265 met.; no gen.; pur. 86.4 million kWh; rev., $550,820.[4]

ELECTRICAL DISTRICT NO. 6, Pinal County, Suite 720, 2845 E. Camelback Rd., Phoenix, 85016, 602/956-8878, Raymond D. Schnepf, chmn.; 220 met.; no gen.; pur. 92,820,000 kWh; rev. $4,482,000. (1965)[5]

ELECTRICAL DISTRICT NO. 7, Rt. 1, Box 662, Peoria, 85345, 602/935-3711, R.D. Justice, bd. chmn.; 110 met.; no gen.; pur. 60 million kWh; rev. $1.1 million. (1948)[5]

HOLBROOK, 86025. (Town owns distribution system; leased to Arizona Public Service Co.)

MARICOPA WATER DISTRICT, Box 730, Peoria, 85345, 602/975-2151, Joe Falbo, gen. mgr.; 80 met.; no gen.; pur. 49,381,112 kWh; rev. $699,214.*(1935)[5]

MESA, City of, Elec. Util., 730 N. Mesa Dr., Box 1466, 85201-0904, 602/834-2265; Richard R. Williams, elec. util. mgr., 11,669 met.; no gen.; sales 223,315,939 kWh; rev. $14,744,525. (1917)*[5]

NAVAJO TRIBAL UTILITY AUTHORITY, Box 170, Fort Defiance, 86504, 602/729-5721, Malcolm P. Dalton, gen. mgr.; 19,148 met.; no gen.; pur. 486,739,690 kWh; rev. $19,837,327. (1966)[4]

PAGE Elec. Util., 819 W. Navajo Dr., Box 516, 86040, 602/645-2515, John Wagner, gen. mgr.; (plans to be in service March 1986 to about 2,500 customers); no gen. (1985)*[5]

PAPAGO TRIBAL UTILITY AUTHORITY, Box 816, Sells, 85634, 602/383-2236, Jerrel D. Huey, gen. mgr.; 2,260 met.; no gen.; pur. 62,472,905 kWh; rev. $4,144,624. (1974)[5]

ROOSEVELT IRRIGATION DISTRICT, Box 95, Buckeye, 85326, 602/935-4271, Jack Conovaloff, mgr.; 100 met.; no gen.; pur. 41 million kWh (includes pumping use); rev. $540,880. (1928)[5]

ROOSEVELT WATER CONSERVATION DISTRICT Box 168, Higley, 85236, 602/963-3414, Michael O. Leonard, gen. mgr.; 66 met.; no gen.; sales 77,638,865 kWh; rev. $1,681,704. (1924)[5]

SAFFORD, City of, 717 Main St., Box 272, 85546, 602/428-2762, Charlie Pratt, elec. serv. dir; 3,600 met. (1937)*[5]

SALT RIVER PROJECT, Box 52025, Phoenix, 85072-2025, 602/236-5900, A. J. Pfister, gen. mgr.; 408,474 met.; gen. 3,453,040 kW, 1,822,527 kW coal, 528,472 kW gas (steam turbine); 449,800 kW gas (combus. turbine); 414,000 gas (comb. cycle): 238,241 (hydro); 13,363,702,000 kWh; pur. 2,128,966,200 kWh; rev. $729,192,645. (1909)*†[5]

THATCHER Mun. Utils., Box 670, 85552, 602/428-2290, Herbert Winsor, mgr.; 692 met.; no gen.; pur. 9,392,919 kWh; rev. $615,921. (1946)*†[4]

WELLTON-MOHAWK IRRIGATION & DRAINAGE DISTRICT, Route 1, Box 19, Wellton, 85356, 602/785-3351, C. L. Gould, mgr.-secy.; 2,827 met.; gen. 1,200 kW oil (eng.); 15,500 kWh; pur. 145,744,824 kWh; rev. $2,727,060. (1942)*†[5]

WICKENBURG, Town of, Box 1269, 120 E. Apache, 85358, 602/684-5451, Coney Orosco, dir. of pub. works; 1,113 met.; no gen.; pur.16,956,000 kWh; rev. $1,345,612. (1947)[5]

WILLIAMS, 86046. (Town owns distribution system; leased to Arizona Public Service Co.)

ARKANSAS

AUGUSTA City Light, Water & Gas Plant, 100 S. Fifth St., 72006, 501/347-2041, Ronnie Stracener, mgr.; 955 met.; no gen.[5]

BENTON Utils., 222 W. South St., Box 607, 72015, 501/778-2546, E.L. Cody, gen. oper. supt.; 7,035 met.; gen. 500 kW oil (eng.); 8,500 kW dual-fuel; 860,700 kWh; pur. 107,310,000 kWh; rev. $6,300,948.(1918)[3]

BENTONVILLE Light & Water System, City Hall, 115 W. Central, 72712, 501/273-9061, Wallace Allen, elec. supt.; 4,535 met.; no gen.; sales 105.9 million kWh; rev. $5,120,565. (1902)[5]

CLARKSVILLE Light & Water Co., Box 99, 72830, 501/754-3148, Ottis R. Cude, mgr.; 2,849 met.; no gen.; pur. 77,712,000 kWh; rev. $3,446,907. (1932)*[5]

CONWAY Corp., 1319 Prairie St., 72032, 501/329-5641, James H. Brewer, gen. mgr.; 9,116 met.; gen. 66,740 kW coal (steam turbine), 269,297,856 kWh; pur. 15,914,640 kWh, rev. $13,331,652. (1929)*[5]

HOPE Water & Light Plant, Box 667, 71801, 501/777-6701, John D. Swift, utils. mgr.; 6,003 met.; no gen.; pur. 132,103,066 kWh; rev. $5,939,066. (1910)*[4]

JONESBORO City Water & Light Plant, 400 E. Monroe, 72401, 501/935-5581, James A. Reed, mgr.; 15,656 met.; no gen. pur. 478,405,110 kWh; rev. $20,378,016. (1906)*[5]

NORTH LITTLE ROCK, Elec. Dept., 800 Main St., Box 159, 72115, 501/372-0100, Hugh Toland, gen. mgr.; 32,939 met; no gen.; pur. 608,888,400 kWh; rev. $37,960,400. (1903)*[5]

OSCEOLA Mun. Light & Power, 316 W. Hale Ave., 72370, 501/563-5245, Jack L. Wilson, util. mgr.; 3,901 met.; gen. 5,910 kW oil-fired eng. stand-by; pur. 113,043,097 kWh.(1928)*[4]

PARAGOULD City Light & Water, 303 W. Court St., Box 9, 72450, 501/236-8571, John H. McDaniel, mgr.; 8,316 met.; no gen.; pur. 235,181,800 kWh; rev. $6,097,292. (1938)*[5]

PARIS Mun. Light & Water Plant, Box 271, 72855, 501/963-2450, Bill Rhineheart, city clk.; 1,756 met.; no gen.; pur. 32 million kWh; rev. $1,144,000.[5]

PIGGOTT Municipal Light, Water & Sewer, 194 W. Court St., 72454, 501/598-2997, Denver Turner, mgr.; 1,997 met.; gen. 2,277 kW oil (eng.), 5,221 kW dual-fuel; pur. 25,874,624 kWh, $1,192,193. (1923)*[4]

PRESCOTT Water & Light Plant, 118 W. Elm St., 71857, 501/887-2210, Larry Stockton, gen. mgr.; 1,752 met.; no gen.; pur. 24,645,600 kWh; rev. $1,828,594. (1921)[5]

SILOAM SPRINGS, City of, Box 80, 72761, 501/524-5136, James R. Kirchoff, elec. supt.; 3,931 met.; no gen.; pur. 116,583,989 kWh; rev. $5,094,240. (1901)*†[4]

WEST MEMPHIS Util. Comm., 604 E. Cooper, Box 1868, 72301, 501/735-3355, William M. Johnson, 10,957 met.; no gen.; rev. $15,887,393.[5]

CALIFORNIA

ALAMEDA City of, Bureau of Elec., 2000 Grand St., Drawer H, 94501, 415/522-7411, Jack Shepard, gen. mgr. and chief engr.; 28,118 met.; no gen.; pur. 171,002,461 kWh; rev. $18,708,020. (1887)*[5]

ANAHEIM, City of, Pub. Utils. Dept., 200 S. Anaheim Blvd., 92805, 714/999-5100, Gordon W. Hoyt, gen. mgr.; 90,154 met.; gen. 69,520 kW (3.16% share) nuclear steam turbine, 194,169,506 kWh; pur. 1,800,495,965 kWh; rev. $142,971,000. (1895)*[5]

AZUSA, City of, Light Dept., Box W W W, 91702, 818/334-0215, Joseph F. Hsu, util. dir.; 11,887 met.; no. gen.; pur. 163,569,600 kWh; rev. $14,878,100. (1898)*[5]

BANNING, City of, Pub. Utils. Dept., 176 E. Lincoln St., 92220, 714/849-4511, Eldridge Sinclair, dir. of pub. utils.; 5,959 met.; no gen.; pur. 70,700,000 kWh; rev. $5,819,811. (1923)*[4]

BIGGS, City of, Box 307, 95917, 916/868-5493, W.T. West, dir. pub. wks.; 577 met.; no gen.; pur. 9,412,909 kWh; rev. $399,403.*[5]

BURBANK, City of, Pub. Service Dept., Box 631, 91503, 818/953-9640, Thomas H. McCauley, gen. mgr.; 44,140 met.; gen. 152,000 kW gas (steam turbine), 39,000 kW gas (combus. turbine), 42,000 kW gas, comb. cycle, 5,000 kW hydro; 316,385,000 kWh; pur. 649,891,000 kWh; rev. $62,544,779. (1913)*[5]

CALAVERAS COUNTY Water District, Box 846, San Andreas, 95246, 209/754-3543, Steve Felte, gen. mgr. (Completion of the district's 205-MW Stanislaus project, under construction, is expected in 1989. Power will be sold to the Northern California Power Agency.) (1947)*[5]

CALIFORNIA DEPT. OF WATER RESOURCES, 1416 Ninth St., Sacramento, 95814, 916/445-9890, L.E. Swenson, principal engr.; 13 met.; no. retail customers; gen. 295,000 kW coal (steam turbine); 1,377,340 kW hydro, 4,313,177,000 kWh; pur. 3,130,509,000 kWh; rev. $143,399,127. (1958)*[5]

COLTON, City of, Elec. Util. Dept., 650 N. La Cadena Dr., 92324, 714/370-5104, Gale A. Drews, elec. util. dir.; 9,173 met.; no gen.; pur. 136,396,200 kWh; rev. $11,281,103. (1897)*[5]

EAST BAY Mun. Util. Dist., Box 24055, Oakland, 94623, 415/835-3000, J. B. Gilbert, gen. mgr.; 2 met. (output sold to Pacific Gas & Electric); gen. 39,300 hydro; 202,817,500 kWh; pur. 100,685,200 kWh; rev. $7,798,605. (1930)[5]

GLENDALE Pub. Service Dept., 119 N. Glendale Ave., 91206, 818/956-2107, W.E. Cameron, dir. of pub. serv.; 68,546 met.; gen. 117,000 kW gas (steam turbine), 53,000 kW dual-fuel (combus. turbine), 98,000 kW dual-fuel (comb. cycle), 1,800 kW gas (eng.); 192,027,880 kWh; pur. 867,640,000 kWh; rev. $55,866,896. (1909)*[5]

GRIDLEY, City of, 685 Kentucky St., 95948, 916/846-3631, Henry E. Ford, city admin.; 1,659 met.; no gen.; pur. 20.5 million kWh; rev. $621,318. (1910)[5]

HAYFORK VALLEY PUD, Box 1186, Hayfork, 96041, 916/628-4454, Bill Hinman, chair., bd. of dirs. (authorized in 1983, not yet operating).[5]

HEALDSBURG, City of, Box 578, 95448, 707/433-9425, Dennis Mrkvicka, elec. dir.; 3,859 met.; no gen., pur. 34,043,000 kWh; rev. $3,337,000. (1900)*[5]

HETCH HETCHY WATER & POWER, 693 Vermont St., San Francisco, 94107, 415/558-3038, T.L. Chung, deputy gen. mgr., 18 met.; gen. 292,500 kW hydro, 2,310,718,220 kWh; pur. 25,956,771 kWh; rev. $71,144,626. (1925)*[5]

IMPERIAL IRRIGATION DISTRICT, 333 E. Barioni Blvd., Imperial, 92251, 619/339-9243, Charles L. Shreves, gen. mgr.; 59,295 met.; gen. 189,100 kW dual-fuel, (steam turbine), 47,450 kW oil (combus. turbine), 117,550 kW dual-fuel, (combus.turbine); 13,276 kW (eng.) 85,645 kW hydro, 453,021 kW (other); 671,784,984 kWh; pur. 846,019,000 kWh; rev. $80,614,594. (1915)*[5]

LODI, City of, 221 Pine St., 95241-1910, 209/333-6762, Henry J. Rice, util. dir.; 18,736 met.; no gen.; pur. 280,090,924 kWh; rev. $19,011,230. (1910)*[5]

LOMPOC, City of, 100 Civic Center Plaza, 93438, 805/736-1261, Gene L. Wahlers, city admin., 10,760 met.; no gen.; pur. 87,556,266 kWh; rev. $6,174,531. (1923)*[4]

LOS ANGELES Dept. of Water and Power, 111 N. Hope St., Box 111, 90051, 213/481-6330, Paul Lane, gen. mgr. and chief engr.; 1,247,659 met.; gen. 10.1 million kWh; 4.6 million kW coal, 496,800 kW gas, 2,866,900 kW dual-fuel (steam turbine), 94,320 kW dual-fuel (eng.), 2 million kW hydro; 18.2 billion kWh; pur. 6,440,966,000 kWh; rev. $1,212,864,006. (1925)*[5]

MERCED IRRIGATION DISTRICT, Box 2288, Merced, 95344, 209/722-5761, Timothy R. McCullough, sec. mgr.; wholesale only, gen. 89,100 kW hydro, 416,267,000 kWh; pur. none; rev. $1,985,000. (1919)[5]

METROPOLITAN WATER DISTRICT OF SOUTHERN CALIFORNIA, Box 54153, Terminal Annex, Los Angeles, 90054, 213/250-6000, Carl Goronkay, gen. mgr.; 2 met. (wholesale); gen. 67,000 kW hydro; pur. none; rev. $18 million.[5]

MODESTO IRRIGATION DISTRICT, Box 4060, Modesto, 95352, 209/578-1212, H.L. (Les) Brooks, gen. mgr., 69,183 met.; gen. 142,400 kW oil (gas combus. turbine), 46,105 kW hydro, 282,199,861 kWh; pur. 1,169,953,953 kWh; rev. $63,567,843. (1923)*[5]

NEEDLES, City of, 1111 Bailey Ave., Box 887, 92363, 619/326-2113, Chris Christensen, utils. mgr.; 2 000 met.; no gen.; rev. $3.5 million. (1983)[5]

NEVADA IRRIGATION DISTRICT, Hydroelectric Div., Box 823, Colfax, Cal. 95713, 916/273-8571, Gary R. Kalsbeek, hydro div. mgr.; gen. 78,500 kW hydro, 531,409,000 kWh; rev. $4,626,986. (All power sold to Pacific Gas & Electric Co.). (1921)[5]

OROVILLE-WYANDOTTE IRRIGATION DISTRICT, Box 117, Forbestown, 95941, 916/534-1221, Steven C. Onken, power supt.; 1 met (wholesale); gen. 104,200 kW hydro, 682,877,214 kWh. (Output sold to Pacific Gas & Electric Co.) (1963)[5]

PALO ALTO, City of, 250 Hamilton Ave., 94301, 415/329-2656, Richard L. Young, dir. utils.; 25,947 met.; no gen.; pur. 984,080,496 kWh; rev. $24,903,520. (1900)*†[4]

PASADENA, Water & Power Dept., 100 N. Garfield Ave., 91109, 818/405-4449, Willard O. Bangham, actg. gen. mgr.; 53,215 met.; 258 MW gas (steam turbine), 52 MW gas (combus. turbine); gen. 317,536,000 kWh; pur. 711,711,000 kWh; rev. $56,056,510. (1906)*[5]

PLACER COUNTY WATER AGENCY, Box 667, Foresthill, 95631, 916/885-6917, Steve Jones, power systems mgr.; gen. 234,000 kW (hydro); 1,511,593,070 kWh. (Output sold to Pacific Gas & Electric.)(1966)[5]

REDDING, City of, Mun. Elec. Util., 760 Parkview Ave., 96001, 916/225-4300, Sam Lindley, dir. elec. dept.; 23,956 met.; no gen.; pur. 490,461,684 kWh; rev. $19,297,012. (1921)*[5]

RIVERSIDE, City of, 3900 Main St., 92522, 714/787-7504, Fred Kray, pub. util. dir.; 70,365 met.; gen. 39,400 kW nuclear steam turbine, 102,200,000 kWh; pur. 1,029,338,879 kWh; rev. $91,985,000. (1911)*[5]

ROSEVILLE, City of, 316 Vernon St., 95678, 916/783-9151, Quentin Mizer, elec. util. dir.; 11,471 met.; no gen.; pur. 204,149,650 kWh; rev. $5,881,812. (1912)*[4]

SACRAMENTO Mun. Util. Dist., 6201 S St., 95817-1899, 916/452-3211, Dewey Lowe, gen. mgr.; 360,315 met.; gen. 72,000 kW geothermal (steam), 913,000 kW nuclear (steam turbine), 649,400 kW hydro, 6,545,254,000 kWh; pur. 2,829,598,000 kWh; rev. $342,352,779. (1947)*†[5]

SAN FRANCISCO Pub. Utils. Comm., Rm. 287, City Hall, 94102, 415/558-4986, Rudy Nothenberg, gen. mgr.; (municipal and wholesale only); rev. $11,314,000.[1]

SANTA CLARA, City of, Utility, 1500 Warburton Ave., 95132, 408/984-3044, James W. Beck, dir. elec. util., 40,639 met.; gen. 5,800 kW dual-fuel, (gas comb.turbine), 33,905,943 kWh; pur. 1,600,814,280 kWh; rev. $75,660,729. (1896)*†[5]

SHASTA DAM AREA PUD, 1650 Stanton Dr., Box 777, Central Valley, 96019, 916/275-8827, Ron Young, gen. mgr.; 3,404 met.; no gen.; pur. 56,769,166 kWh; rev. $1,235,110. (1945)*[3]

TRINITY COUNTY PUD, Drawer V, Weaverville 96093, 916/623-5536, Jeff Shields, gen. mgr.; 1,800 met.; no gen.; pur. 25,668,193 kWh; rev. $1,546,129. (1982)*[5]

TRUCKEE-DONNER PUD, 11570 Donner Pass Rd., Box 309, Truckee, 95734, 916/587-3896, Peter Holzmeister, gen. mgr.; 5,739 met.; no gen.; pur. 77,508,300 kWh; rev. $5,497,722. (1927)*[5]

TUOLUMNE COUNTY Public Power Agency, 2 S. Green St., Sonora, 95370, 209/533-5515, Dominic Salluce, agency coordinator, 196 met.; no gen., pur. 13,777,090 kWh; rev. $558,897 (distributes power only to local public entities) (1982)[5]

TURLOCK IRRIGATION DISTRICT, Box 949, Turlock, 95381, 209/632-3861, Ernest Geddes, gen. mgr.; 47,063 met.; gen. 106,134 kW hydro, 643,217,977 kWh; pur. 386,915,523 kWh; rev. $40,034,494. (1922)*[5]

UKIAH, City of, 203 S. School St., 95482, 707/462-2971, Maurice K. Roper, dir., elec. util.; 6,151 met.; no gen.; pur. 89,026,500 kWh; rev. $5,340,842. (1897)*[5]

VERNON, City of, Light & Power Dept., 4305 Santa Fe Ave., 90058 213/583-8811, Bruce V. Malkenhorst, exec. dir.; 2,061 met.; gen. 6,000 kW oil (int. combus. eng.), 9,357,550 kWh; pur. 1,097,204,115 kWh; rev. $74,906,767. (1933)*[5]

YUBA COUNTY WATER AGENCY, Box 176, Dobbins, 95935, 916/692-1633, Daryl D. Sutton, mgr.; gen. 365,000 kW hydro, 2,761,014,000 kWh.; rev. $8,983,389. (Output sold to Pacific Gas & Electric Co.) (1966)[3]

COLORADO

ASPEN, City of, 130 S. Galena, 81611, 303/925-2020, ext. 284, J.B. Dickinson; 2,200 met.; gen. 5,000 kWh hydro; pur. 44,985,600 kWh; rev. $2,986,671. (1896)*[5]

BURLINGTON, City of, 480 15th St., 80807-1624, 303/346-8585, Don Beethe, admin.; 1,540 met.; no gen.; sales 16,660,712 kWh; rev. $1,374,508. (1920)[5]

CENTER Mun. Light and Power, 400 S.Worth, Box 400, 81125, 303/754-3497, Darrell T. Davis, supt.of utils.; 852 met.; 1,700 kW, 1,200 kW oil (eng.), 500 kW dual-fuel (eng.); pur. 10,487,701 kWh; rev. $411,085. (1941)*†[4]

COLORADO SPRINGS, Dept. of Utils., Box 1103, 80947, 303/636-5300, James D. Phillips, dir.; 120,602 met.; gen. 546,800 kW, 464,300 kW coal, 82,500 kW gas (steam turbine), 6,000 kW hydro; pur. 274,184,000 kWh; rev. $112,945,841. (1925)*[5]

DELTA Mun. Light & Power, 1133 Main St., Box 19, 81416, 303/874-7566, Richard Baker, power plt. supvr.; 1,979 met.; gen. 422 kW oil, 4,567 kW dual-fuel (eng.), 1,027,400 kWh; pur. 29,019,542 kWh; rev. $2,011,674. (1937)*†[4]

ESTES PARK, Town of, Light & Power Dept., Box 1200, 80517, 303/586-5486, Robert L. Dekker, dir.; 5,892 met.; no gen. pur. 64,050,086 kWh; rev. $3,981,474. (1945)*†[4]

FLEMING, Town of, 114 Logan St., Box 466, 80728, 303/265-2692, Rick Rigel, util. maint. foreman; 210 met.; no gen.; pur. 2,100,000 kWh; rev. $100,000.†[5]

FORT COLLINS Light & Power Utility, Box 580, 80522, 303/221-6700, Bill D. Carnahan, gen. mgr.; 29,680 met.; no gen.; sales 541,723,331 kWh; rev. $28,626,683. (1935)*†[5]

FORT MORGAN, City of, 710 E. Railroad Ave., Box 100, 80701, 303/867-3001, Glen W. Calvert, city supt.; 5,275 met.; no gen.; pur. 190,160,796 kWh; rev. $2,078,311 (1906)*[3]

FOUNTAIN, City of, 116 S. Main St., 80817, 303/382-5604, Bud Morgan, elec. supvr.; 7,872 met.; no gen.; pur. 86,238,000 kWh; rev. $3,546,379.[5]

FREDERICK, Town of, Box 435, 80530, 303/833-2388, Wm. Hall, mayor; 305 met.; no gen.[5]

GLENWOOD SPRINGS Elec. System, 302 W. 8th St.,81601, 303/945-6672, 945-2575, Michael Copp, city mgr.; 4,355 met.; no gen.; pur. 61,944,800 kWh; rev. $3,923,117. (1953)*[4]

GRANADA, Town of, Elec. Dept., 109 E. Goff St., Box 258, 81041, 303/734-5411, Thelma Schibblehut, town clerk; 219 met.; no gen.; pur. 2,010,000 kWh; rev. $191,191.[5]

GUNNISON, City of, Box 239, 81230, 303/641-2443, Dale Howard, city mgr.; 2,853 met.; no gen.; pur. 49,713,825 kWh; rev. $2,020,601. (1880s)*[5]

HAXTUN, Town of, 145 S. Colorado Ave., 80731, 303/774-6104, R. D. Orcutt, supt.; 700 met.; gen. 620 kW oil, eng. (standby); pur. 5,993,760 kWh; rev. $266,511. (1904)[5]

HOLLY, Town of, Box 458, 81047, 303/537-6622, Dorothy Cook, town clerk; 671 met.; no gen.; pur. 6,366,720 kWh; rev. $352,979. (1949)[3]

HOLYOKE, City of, 207 W. Danver St., 80734, 303/854-2266, Allan Coyne; 1,110 met.; no gen.; pur. 18,770,400 kWh; rev. $497,824.[5]

JULESBURG, Town of, 222 E. First St., 80737, 303/474-3344, Melvin Mikelson, town mgr.; 827 met.; gen. 3,060 kW oil (eng.), pur. 9,386,324 kWh; rev. $633,694.*[4]

LA JUNTA Mun. Utils., Box 630, 81050, 303/384-8454, Robert H. Smith, elec. supt.; 3,672 met.; gen. 19,253 dual-fuel eng., 766,900 kWh; pur. 58,496,300 kWh; rev. $3,945,547. (1939)*[5]

LAMAR, Utils. Bd., 100 N. Second St., 81052, 303/336-7456, Kevin G. Wailes, supt.; 5,438 met.; gen. 34,000 kW gas (steam turbine), 2,000 kW oil (eng.), 65,622,500 kWh; pur. 14,664,000 kWh; rev. $6,437,254. (1919)*†[5]

LAS ANIMAS Mun. Light & Power, Box 271, 81054, 303/456-1621, Dwain Parrack, supt.; 1,931 met.; gen. 620 kW oil, 5,000 kW dual-fuel (eng.), 35,100 kWh; pur. 21,323,000 kWh; rev. $1,010,962. (1941)*[3]

LONGMONT, City of, 1100 S. Sherman St., 80501, 303/776-6050, David C. Plumb, dir. of mun. utils.; 20,320 met.; gen. 600 kW hydro, 4,559,770 kWh; sales 320,772,850 kWh; rev. $17,069,017. (1911)*†[5]

LOVELAND, City of Elec. Dept., 446 N. Garfield, 80537, 303/667-6130, ext.557, Dieter Wirtzfeld, dir.; 14,834 met.; gen. 900 kW hydro; 4,123,134 kWh; pur. 276,711,417 kWh; rev. $15,334,264. (1925)*[5]

LYONS, Town of, 432 5th Ave., 80540, 303/823-6622, Herb McConnell, pub. wks. supt.; 500 met.; no gen.; pur. 6,095,934 kWh; rev. $375,017.[5]

OAK CREEK, Town of, Box 128, 80467, 303/736-8231, Nancy Stahoviak, mayor; 480 met.; no gen.; sales 3,813,997 kWh; rev. $202,395.(1930s).[5]

SPRINGFIELD Mun. Util., Box 4, 81073, 303/523-4528 or 6231, Darwin Hansen, elec. foreman; 1,037 met.; gen. 2,640 kW dual-fuel eng. (standby); pur. 8,359,284 kWh; rev. $700,029. (1947)*[5]

TRINIDAD Mun. Power & Light, 135 N. Animas, 81082, 303/846-9843; David Brunelli, supt.; 4,287 met.; gen. 3,750 kW coal (steam turbine), 3,750 gas (steam turbine); 3,750 dual-fuel (eng.); 6,400,000 kWh; pur. 18,759,000 kWh; rev. $2,807,000. (1948)*[5]

WALSENBURG Utils., 525 S. Albert, 81089, 303/738-1240, Richard Abila, supt.; 2,079 met.; no gen.; pur. 16,725,480 kWh; rev. 1,230,341. (1952)[3]

WRAY City of, Box 35, 80758, 303/332-4431, Robert Snedeker, city mgr.; 1,353 met.; no gen.; pur. 17,366,400 kWh; rev. $773,556. (1903)*†[5]

YUMA City of, Light & Power, 221 S. Main St., 80759, 303/848-3878 or 2147, Paul Metcalf, city mgr.; 1,350 met.; gen. (standby) 1,350 kW oil-fired eng.; pur. 13,803,262 kWh; rev. $730,658. (1928)[3]

CONNECTICUT

GROTON City of, Dept. of Util., 295 Meridian St., Box 820, 06340, 203/445-8571, William W. Clinton, dir. of utils.; 12,491 met.; no gen.; pur. 579,368,400 kWh; rev. $38,518,455. (1904)*†[5]

JEWETT CITY Elec. Light Plant, 29 Park Square, 06351, 203/376-2955, 376-2877, Joseph M. Dudek, supt.; 1,890 met.; no gen.; pur. 15,589,814 kWh; rev. $1,308,956. (1893)*†[5]

NORWALK THIRD TAXING DISTRICT, Elec. Dept., 2 Second St., E. Norwalk, 06855, 203/866-9271, Donald H. Radley, mgr.; 3,225 met.; no gen.; pur. 51,318,010 kWh; rev. $4,397,801. (1913)*†[5]

NORWICH Dept. of Pub. Utils., 34 Courthouse Sq., 06360, 203/887-2555, Richard E. DesRoches, gen. mgr.; 16,534 met.; gen. 16,750 kW oil (combus. turbine), 3,000 kW hydro, 16,669,660 kWh; pur. 252,179,200 kWh; rev. $22,824,344. (1904)*†[5]

SOUTH NORWALK Elec. Works, State St., Box 400, 06856, 203/866-3366, Larry Rossi, gen. mgr.; 5,163 met.; gen. 15,280 kW oil, eng., 417,800 kWh; pur. 62,124,680 kWh; rev. $5,815,812. (1892)*†[5]

WALLINGFORD Elec. Div., 100 John St., 06492, 203/265-1434, Raymond F. Smith, dir. of utils.; 17,852 met.; gen. 22,500 kW oil, (steam turbine), 519,200 kWh; pur. 402,260,000 kWh; rev. $28,678,553. (1899)*†[5]

DELAWARE

CLAYTON Mun. Light & Power, 314 Main St., 19938, 302/653-8419, James H. Carson Jr., council pres., 600 met.; pur. 5,276,673 kWh; rev. $479,642.[5]

DOVER City of, Elec. Dept., Box 475, 19903, 302/736-7070, Thomas L. Darte, elec. dir.; 14,473 met.; gen. 143,000 kW oil-gas (steam turbine), 606,371,200 kWh; pur. 80,792,000 kWh; rev. $49,444,000. (1902)*†[5]

LEWES Bd. of Pub. Works, Box 518, 19958, 302/645-6228, Ronald Donovan, gen. mgr.; no gen.; pur. 38,796,000 kWh.; rev. $2,479,465. (1901)[5]

MIDDLETOWN Town of, Town Hall, 216 N. Broad St., 19709, 302/378-2711, Charles E. Price, mayor; 1,100 met.; no gen.[5]

MILFORD, City of, 201 S. Walnut St., Box 159, 19963, 302/422-6616, John F. Frederick, city mgr.; 3,837 met.; no gen.; pur. 86,611,803, rev. $7,046,553. (1918)[5]

NEWARK, City of, 220 Elkton Rd., 19711, 302/366-7080, Peter Marshall; 7,709 met.; no gen.; pur. 183,400,108 kWh; rev. $14,875,185. (prior to 1914)*[5]

NEW CASTLE Bd. of Water & Light Comm., 216 Chestnut St., Box 208, 19720-0208, 302/328-2330, Edward J. Murphy, secy.-mgr.; 1,940 met., no gen.; pur. 17,122,965 kWh; rev. $1,605,121. (1921)*[5]

SEAFORD City of, Box 671, 19973, 302/629-9173, Dolores J. Slatcher, city mgr.; 2,766 met.; gen. 7,302 kW oil, eng.; 5,789,200 kWh; pur. 53,596,800 kWh; $4,353,826.[5]

SMYRNA, Town of, Elec. Util., Box 307, 19977, 302/653-9231, Cliff LaSana, distr. supt.; 2,049 met.; no gen.; pur. 33,332,111 kWh; rev. $2,711,158. (1893)[4]

FLORIDA

ALACHUA, City of, Box 9, 32615, 904/462-1231, Mark Duchon; 1,631 met.; no gen.; pur. 28,350,300 kWh; rev. $2,057,658. (1960)[5]

BARTOW, City of, 450 N. Wilson Ave., 33830, 813/533-0911, James R. O'Connor, city mgr.; 8,774 met.; no gen.; pur. 186 million kWh; rev. $13,675,548. (1903)[5]

BLOUNTSTOWN Mun. Elec. Dept., 125 W. Central Ave., 32424, 904/674-5488, Grant Gentry, city mgr.; 1,285 met.; no gen.; rev. $1,445,834.(1903)[5]

BUSHNELL Util. Dept., Box 115, 33513, 904/793-2591, Lelman Shaw, supt.; 672 met.; sales 17,238,711 kWh; rev. $966,951. (1921)[5]

CHATTAHOOCHEE, City of, City Hall, Box 188, 32324, 904/663-4046, Clyde Hopkins, supt.; 1,230 met.; no gen.; sales 39,969,000 kWh; rev. $2,154,929. (1915)*[5]

CLEWISTON, City of, Box 698, 33440, 813/983-9191, C. F. Blair, city mgr.; 3,475 met.; no gen.; pur. 72,096,929 kWh; rev. $5,858,689. (1942)*[5]

FORT MEADE, City of, Box 856, 33841, 813/285-8195, Leonard Filyaw, elec. supt.; 2,317 met.; no gen.; pur. 29,422,440 kWh; rev. $2,379,985. (est. 1920s)[5]

FORT PIERCE Utils. Authority, 206 S. Sixth St., Box 3191, 33450, 305/464-5600, Harry Schindehette, dir.; 22,562 met.; gen. 37,500,000 kW oil, 56,116,000 kW gas, (steam turbine), 5,500,000 kW diesel; 403,981,000 kWh; pur. 86,978,000 kWh; rev. $27,201,257. (1911)*[5]

GAINESVILLE REGIONAL UTILITIES, Box 490, Gainesville, 32602, 904/374-2923, Richard L. Hester, gen mgr.; 48,764 met.; gen. 168,750 kW dual-fuel (steam turbine), 250,750 kW coal, 12,113 kW nuclear, 97,650 kW dual-fuel (combus. turbine), 1,590,519,000 kWh; pur. 20,523,000 kWh; rev. $63,745,647. (1912)*†[5]

GREEN COVE SPRINGS, City of, 229 Walnut St., 32043, 904/284-5621; Teddy C. Ryan Jr., city mgr.; 2,080 met.; no gen.; pur. 64,322,601 kWh; rev. $4,626,111. (1907)[5]

HAVANA, Town of, Box 1068, 32333, 904/539-6494, C. G. Trippe, town mgr.; 1,156 met.; no gen.; pur. 13,442.800 kWh. (1926)[5]

HOMESTEAD, City of, 675 N. Flagler Ave., 33030, 305/247-1801, Warren Hinchee, dir. of utils.; 12,631 met.; gen. 2,580 kW oil, 59,100 kW dual-fuel (eng.), 75,730,835 kWh; pur. 109,349,000 kWh; rev. $16,486,186. (1926)*[5]

JACKSONVILLE Elec. Authority, 233 W. Duval St., 32202, 904/633-4958, Royce Lyles, mng. dir.; 244,326 met.; gen. 1,533,300 kW oil, 231,600 kW dual-fuel (steam turbine), 460,500 kW oil (combus. turbine), 1,719,710,000 kWh; pur. 4,698,257,759 kWh; rev. $421,430,076. (1895)*†[5]

JACKSONVILLE BEACH, City of, 11 N. Third St., 32250, 904/249-2381, Keith Roberts, dir. elec. util.; 18,816 met.; no gen.; pur. 287,136,000 kWh; rev. $23,791,484. (1908)*†[5]

KEY WEST, Utility Bd. of the City, 1001 James St., 33040, 305/294-5272, Robert R. Padron, mgr.; 18,446 met.; gen. 122,500 MW; 87.0 MW oil (steam turbine); 22 MW diesel (combus. turbine); 13.5 MW diesel (internal combus. eng.); 381,603,260 kWh; sales 333,911,824; rev. $42,015,767. (1943)*[5]

KISSIMMEE, Utils., 101 N. Church St., Box 2148, 32742-2148, 305/847-2821, James C. Welsh, util. dir.; 18,738 met.; gen. 74,550,000 kW, 16,350 kW dual-fuel (eng.), 5,000 kW oil (eng.); 47,500 kW dual-fuel (comb. cycle); 206,129,000 kWh; pur. 130,498,000 kWh; rev. $28,174,839. (1900)*[5]

LAKELAND, City of, Elec. & Water Dept., 1000 E. Parker St., 33801, 813/687-3636, R. G. Siegel, mng. dir., 69,980 met.; gen. 721,350 kW, 325,000 kW gas, 334,000 kW coal (steam turbine), 56,850 kW oil (combus. turbine), 5,500 kW oil (eng.); 2,466,456,000 kWh; pur. 156,990,000 kWh; rev. $104,391,295. (1904)*†[5]

LAKE WORTH, City of, Utilities, 114 College St., 33460, 305/586-1703, J. Claude L'Engle, utils. dir., 23,328 met.; gen. 32,640 kW oil, 33,920 kW gas, 66,560 kW dual-fuel (steam turbine); 30,800 kW gas turbine, 30,000 kW dual- fuel (comb. cycle); 10,000 kW oil (eng.); 284,072,400 kWh; pur. 7,391,000 kWh; rev. $25,593,200. (1916)[5]

LEESBURG, City of, Elec. Dept., Box 630, 32748, 904/787-4252, J. M. Tardugno Jr., elec. supt.; 13,072 met.; gen. 6,700 kW nuclear (steam turbine), 61,073,000 kWh; pur. 202,606,000 kWh; rev. $18,652,344. (1926)*[5]

MOORE HAVEN, City of, Box 399, 33471, 813/946-0711, Carmen Whitney, city clk.; 796 met.; no gen.; pur. 10,561,224 kWh; rev. $1,030,849. (1924)[5]

MOUNT DORA Utilities, Box 176, 32757, 904/383-4221, Arthur Womble, supt. of utils.; 4,292 met.; no gen.; pur. 53,100,000 kWh; rev. $4,525,000. (1922)[5]

NEWBERRY Bd. of Public Works, Box 369, 32669, 904/472-2161, John W. Caldwell, util. dir.; 765 met.; no gen.; sales 125,869 kWh; rev. $1,040,417. (1910)[5]

NEW SMYRNA BEACH, City of, Util. Comm., 120 Sams, Box 519, 32070, 904/427-1361, R.Ronald Hagen, util. dir.; 11,997 met.; gen. 24,266 kW, 4,991 kW nuclear, 14,040 kW oil-fired, 5,235 kW dual-fuel, 52,395,895 kWh; pur. 82,607,000 kWh; rev. $13,422,079 (1922).*[5]

OCALA Elec. Utils., Box 1270, 32678, 904/351-6600, Dean G. Shaw, dir. of elec. util.; 32,104 met.; no gen.; kWh; pur. 645,308,000 kWh; rev. $47,587,640. (1893)*[5]

ORLANDO Utils. Comm. Box 3193, 500 S. Orange Ave.,32802, 305/423-9100, Harry C. Luff, gen. mgr.; 121,099 met.; gen. 869,120 kW; 145,548 kW coal, 638,800 kW dual-fuel (steam turbine), 66,022 kW nuclear steam turbine, 18,750 kW gas (combus. turbine), 2,666,166,000 kWh; pur. 208,765,000 kWh; rev. $159,250,660. (1923)*[5]

QUINCY, City of, Drawer 941, 32351, 904/627-7681, Otto Roberts, dir. of utils.; 4,186 met.; no gen.; sales

119,530,699 kWh; rev. $5,315,472. (1904)[5]

ST. CLOUD City of, 1300 Ninth St., 32769, 305/892-2161, Ivan S. Stupal, dir. elec. utils.; 8,768 met.; gen. 29,250 kW dual-fuel (eng.), 56,500,300 kWh; pur. 64,258,000 kWh.(1916)*[4]

SEBRING Utils. Comm.,321 Mango St., Box 971, 33871-0971, 813/385-0191, James E. Moothart, gen. mgr., 10,114 met.; gen. 71,141 kW, 12,650 kW gas, 58,491 kW oil (eng), 91,526,695 kWh; pur. 27,188,000 kWh; rev. $11,183,874. (1923)*[5]

STARKE Light & Water Plant, 209 N. Thompson St., Drawer C, 32091, 904/964-5027, William M. Weldon, supt.; 2,413 met.; pur. 30,068,800; rev. $1,154,239. (1890)[5]

TALLAHASSEE, City of, 300 S. Adams St., 32301, 904/599-8502, B. W. Wait III, dir.; 62 755 met.; gen. 549,442 kW, 464,250 kW gas & oil, 73,320 kW oil and gas turbine, 11,872 kW nuclear, 955,499,956 kWh; pur. 429,920,000 kWh; rev. $96,250,399. (1902)*[5]

VERO BEACH, City of, Box 1389, 32961-1389, 305/567-5151, John V. Little, city mgr./util. dir.; 20,535 met.; gen. 130,378 kW, 117,000 kW oil or gas (steam turbine), 13,378 kW oil (eng.), 314,013,000 kWh; sales 394,246,842 kWh; rev. $26,985,556. (1919)[5]

WAUCHULA, City of, Box 818, 33873, 813/773-3131, Thomas M. Priest, supt., pub. works; 2,083 met.; gen. 7,250 kW int. combus. eng.; pur. 43,268,000 kWh; rev. $52,561,644. (1924)*[5]

WILLISTON Mun. Elec. Dept., Box 160, 32696, 904/528-3060, Donald J. Tanner, util. dir.; 1,230 met.; no gen.; sales 16,711,823 kWh; rev. $1,432,945.[5]

GEORGIA

ACWORTH City of, 4375 Sen, Russell Sq., 30101, 404/974-3112, Joseph Griffis, supt.; 2,300 met.; no gen.; rev. $1,368,000.[3]

ADEL, City of, Elec. Dept.,Box 658, 31620, 912/896-2821, S.H. Sutton, mgr.; 1,800 met.; no gen.; pur. 62,085,500 kWh.*[4]

ALBANY Water, Gas & Light Comm., 207 Pine Ave., 31703, 912/883-8330, U. W. Rodemann, gen. mgr.; 33,538 met.; no gen.; sales 757,969,142 kWh; rev. $38,873,315. (1900)*[5]

BARNSVILLE, City of, Elec. Dept., 109 Forsyth St., 30204, 404/358-0181, Ralph S. Barron, city admin.; 2,281 met.; no gen.; sales 36,343,000 kWh; rev. $2,354,000. (1910)*[5]

BLAKELY, City of, Box 350, 31723, 912/723-3677, Billy Fleming, mayor; 2,411 met.; no gen.; pur. 53,058,312 kWh; rev. $2,620,924. (1929)*[4]

BRINSON, City of, Box 728, 31725, 912/246-5720, Ed Mitchell, mayor; 95 met.; no gen.; pur. 1,501,042 kWh; rev. $62,317. (1925)*[5]

BUFORD, City of, 30 Garnett St., 30518, 404/945-6761, Earley Biffle, city mgr.; 2,110 met.; no gen.; pur. 28,739,805 kWh; rev. $1,469,823.*[4]

CAIRO, City of, Box 29, 31728, 912/377-3653, Dan. A. Wells, city mgr.; 4,272 met.; no gen.; pur. 97,377,879 kWh; rev. $4,000,405. (1902)*[5]

CALHOUN, City of, Box 924, 30701, 404/629-2276 or 0464, Kelly Cornwell, supt.; 2,748 met.; no gen.; pur. 175,945,243 kWh; rev. $8,431,823. (1900)*[5]

CAMILLA, City of, Box 328, 31730, 912/336-5636, Clarence H. Bryant, city mgr.; 2,060 met.; no gen.; pur. 60,006,880 kWh; rev. $2,962,382. (1925)*[4]

CARTERSVILLE Elec. System, 320 S. Erwin, Box 648, 30120, 404/382-1171,ext. 237 or 238, Ralph L. Oglesby, elec. supt.; 4,526 met.; no gen.; pur. 29,983,222 kWh; rev. $12,676,935. (1905)*[5]

CHICKAMAUGA Elec. System, Box 68, 30707, 404/375-3177, Mike McDonald, mgr.; 788 met.; no gen.; pur. 33 million kWh; rev. $1,384,249. (1963)*[4]

COLLEGE PARK, City of, 3667 Main St., 30337, 404/767-1537, Jerry L. Gawltney, city mgr.; 11,577 met.; no gen.; pur. 21,463,460 kWh; rev. $9,020,757.*[4]

COMMERCE, City of, Box 348, 30529, 404/335-3164, H. Douglas Dorsey; 1,866 met.; no gen.; pur. 36,520,116 kWh.*[5]

COVINGTON, City of, 2111 Conyers St., Box 1527, 30209, 404/786-5324, Frank B. Turner, city mgr.; 6,340 met.; no gen.; pur. 122,670,501 kWh; rev. $6,698,101. (est. 1900)*[4]

CRISP COUNTY POWER COMMISSION, Box 1218, Cordele, 31015, 912/273-3811, Frank L. Olson, mgr.; 9,472 met.; gen. 30,500 kW, 12,500 kW coal, 5,000 kW gas turbine, 13,000 kW hydro, 63,433,100 kWh; pur. 32,975,327 kWh; rev. $9,579,819. (1927)*[5]

DALTON Utilities, Box 869, 30722-0869, 404/278-1313, DeForrest Parrott, gen. mgr.; 10,308 met.; pur. 725,696,992 kWh. (1890)[5]

DOERUN, City of, Box 37, 31744, 912/782-5444, J. B. Walters, city mgr.; 474 met.; no gen.; pur. 5,626,454 kWh; rev. $354,644. (1911)*[4]

DOUGLAS, City of, Box 470, 31533, 912/384-3302, Joe Glen Solomon, supt.; 4,489 met.; no gen.; sales 125,880,886 kWh; rev. $6,664,781. (1899)*[4]

EAST POINT, City of, 2777 East Point St., 30344, 404/765-1027, Marshall J. Collins, dir.; 16,385 met.; no gen.; pur. 286,641,373 kWh.*[4]

ELBERTON, City of, 234 N. McIntosh St., 30635, 404/283-2575, J. N. Jackson, supt.; 4,229 met.; no gen.; pur. 86 17 million kWh; rev. $4,524,400. (1895)*[5]

ELLAVILLE, City of, Box 13, 31806, 912/937-2207, Sharon Mowbray, city clerk; 850 met.; no gen.; rev. $650,000. (1976)*[5]

FAIRBURN Electrical Dept., 56 Malone St., 30213, 404/964-2244, Alex Howell Sr., city mgr.; 1,538 met.; no gen.; pur. 24,087,398 kWh; rev. $1,098,886.*[3]

FITZGERALD Water, Light & Bond Comm., Drawer F, 31750, 912/423-2016, Carlton J. Fowler, gen. supt.; 5,466 met.; no gen.; pur. 125,999,589 kWh; rev. $6,258,359. (1907)*[5]

FORSYTH, City of, Box 1447, 31029, 912/994-5649, Guy F. Walker, supt.; 1,700 met.; no gen.; pur. 38,280,448 kWh; rev. $2,017,126.*[3]

FORT VALLEY, City of, Utils. Comm., 400 Anthoine St., Box 529, 31030, 912/825-7701, Fred J. Sankey, dir.; 4,256 met.; no gen.; pur. 80,251,259 kWh; rev. $3,860,123. (1905)*[4]

GRANTVILLE, City of, Box 126, 30220, 404/583-2289, Paul F. Musick Jr., mayor; 440 met.; no gen.; pur. 4,007,389 kWh; rev. $179,931.*[3]

GRIFFIN, City of, Box 797, 30224, 404/229-1506, Clifford Hutson, dir., elec. dept.; 11,579 met.; no gen.; pur. 26,339,130 kWh; rev. $9,585,683. (1895)*[5]

HAMPTON, City of, 30228, 404/946-3228, John L. Maddox, supt.; 950 met.; no gen.; pur. 11,070,487 kWh; rev. $547,269.[5]

HOGANSVILLE, City of, 400 E. Main St., 30230, 404/637-8629, David Street, supt.; 1,440 met.; no gen.; pur. 16.7 million kWh; rev. $954,109.*[5]

JACKSON, City of, Box 3838, 30233, 404/775-7535, S. V. Lunsford, elec. dept. supt.; 1,409 met.; no gen.; pur. 25,821,173 kWh; rev. $1,336,840. (1900)*[4]

LA FAYETTE, City of, Box 89, 30728, 404/638-1082; Paul Van Dusen, supt.; David L. Aldrich, city mgr.; 3,349 met.; no gen.; pur. 80,065,427 kWh; rev. $4,129,609. (1925)*[5]

LA GRANGE, City of, 200 Ridley Ave., 30240, 404/884-7386, C. W. Hughes, dir. of utils.; 10,458 met.; no gen.; pur. 261,995 kWh; rev. $11,978,949. (1900)*[4]

LAWRENCEVILLE, City of, 405 S. Clayton St., 30245, 404/963-2414, Don Martin, mgr.; 5,800 met.; no gen. pur. 100,787,808 kWh; rev. $5,407,905. (1920)*[5]

MANSFIELD, Town of, Box 35, 30255, 404/786-7235, Wayne Blackwell, chrmn. of elec. dept.; 215 met.; no gen.; sales 2,555 mWh; rev. $125,000. (1910)*[5]

MARIETTA City of, Board of Lights & Water, Box 609, 30061, 404/429-4200, John M. Crane, city mgr.; 30,071 met.; no gen.; pur. 509,860,502 kWh; rev. $28,105,137. (1906)*[4]

MONROE Water, Light & Gas Comm., 215 N. Broad St., Box 725, 30655, Box 725, 404/267-3429, John T. Briscoe III, supt.; 4,106 met.; no gen.; pur. 83,091,274 kWh; rev. $3,644,426. (1906)*[5]

MONTICELLO, City of, 115 E. Greene St., 31064, 404/468-6062, Henry T. Hooper, mayor; 1,172 met.; no gen.; sales 15,668,000 kWh; rev. $790,784. (1905)*[5]

MOULTRIE, City of, Box 580, 31768, 912/985-1974, Bob Roberson, city mgr.; 6,461 met.; no gen.; pur. 170,541,671 kWh; rev. $7,312,385. (1898)*[4]

NEWNAN Water, Sewerage & Light Comm., 70 Sewell Rd., Box 578, 30263, 404/253-5516, Carl G. Miller, gen. mgr.; 5,191 met.; no gen.; pur. 79,480,909 kWh; rev. $4,271,541. (1904)*[4]

NORCROSS, City of, 333 Mitchell Rd., 30071, 404/448-2122, Doug Wood, elec. supt.; 4,800 met., no gen.; pur. 29 million kWh.(1929)*[4]

OXFORD, City of, 810 Whatcoat St., Box 207, 30267, 404/786-7004, Fred E. Taylor, mayor; 615 met., no gen.; pur. 8,710,000 kWh; rev. $607,152.[5]

PALMETTO City, 549 Main St., 30268; 404/463-3377, Geraldine Collum, city clk.; 750 met.*[5]

QUITMAN City of, Box 208, 31643, 912/263-4166, J.P.Griffin, elec. supt.; 2,429 met.; no gen.; pur. 41,472,280 kWh; rev. $1,873,909.*[4]

SANDERSVILLE, City of, Elec. Dept., Box 71, 31082, 912/552-5370, Wayne Pool, elec. supt.; 2,800 met.; no gen.; pur. 42,898,936 kWh ,rev. $2,010,803.*[4]

SYLVANIA, City of, Box 555, 30467, 912/564-7411, E. K. Overstreet, city mgr.; 1,856 met.; no gen.; pur. 94,839,592 kWh; rev. $4,130,126. (1910)*[4]

SYLVESTER, City of, 105 E. King St., 31791, 912/776-7272, Charles Jones, supt.; 2,330 met.; no gen.; pur. 6,507,480 kWh; rev. $2,895,597. (1903)*[5]

THOMASTON, City of, Box 672, 30286, 404/647-6633, Frank Spraggins, elec. supt.; 4,050 met.; no gen.; pur. 62,114,891 kWh; rev. $3,931,741.*[4]

THOMASVILLE, City of, Water & Light Dept., Box 1397, 31799, 912/226-3518, Henry O'Quinn, gen. supt.; 13,457 met.; no gen.; pur. 322,980,751 kWh; rev. $16,078,036. (1906)*[5]

WASHINGTON, City of, Box 9, 30673, 404/678-3277, E. B. Pope, mayor; 2,278 met.; no gen.; pur. 9,024,919 kWh; rev. $3,607,876. (1897)*[4]

WEST POINT, City of, Box 487, 31833, 404/645-2226, Joel T. Wood, city clk.; 1,605 met.; no gen., pur. 30,101,000 kWh; rev. $1.784 million. (1900)*[5]

WHIGHAM Elec. Dept., Box 71, 31797, 912/762-4114, Keith Sandefur, elec. supt.; 200 met.; no gen.; pur. 4.5 million kWh.(1908)*[4]

IDAHO

ALBION Light & Water Plant, Box 163, 83311, 208/673-5351, John K. Powell, mayor; 163 met.; no gen.; pur. 3 million kWh; rev. $30,000. (1916)*[4]

BONNERS FERRY, City of, Box 149, 83805, 1-208/267-3105, Harold Sims, mayor, 2,011 met.; gen. 6,390 kW, 2,440 kW oil (diesel), 3,950 kW hydro; 33,123,000 kWh; pur. 69,169,000 kWh; rev. $1,745,983. (1922)*[4]

BURLEY, City of, Box 1090, 83318, 208/678-2538, Donald R. Hill, utils. dir., 3,802 met.; no gen.; pur. 109,278,552 kWh; rev. $3,884,527.*[5]

DECLO City of, Box 146, 83323, 208/654-2124, Nelda Matthews, clerk, 104 met.; no gen.; pur. 3,469,277 kWh; rev. $121,185. (1910)[5]

HEYBURN, City of, Box 147, 83336, 208/678-8158, Bob Despain, mgr. elec dept.; 1,007 met.; no gen.; pur. 73,673,975 kWh; rev. $2,265,352. (1910)[5]

IDAHO FALLS, City of, Elec. Div., 140 S. Capital, Box 220, 83402, 208/529-1430, Steve Harrison, mgr.; elec. div.; 15,592 met.; gen. 27,000 kW hydro; 125,977,400 kWh; pur. 528,933,245 kWh; rev. $18,093,609. (1900)*[5]

MINIDOKA, City of, 83343, 208/532-4575, Deon Fassett, clerk; 55 met.; no gen.; pur. 1 million kWh. (1924)[4]

PLUMMER Elec. Dept., 880 C. St., Box B, 83851, 208/686-1422, Bernard Quinn, mgr.; 720 met.; no gen.; pur. 17,708,619 kWh; rev. $602,000. (1916)[5]

RUPERT, City of, Elec. Dept., Box 426, 83350, 208/436-9608, Fred Davies, mgr., elec. dept.; 2,690 met.; no gen.; pur. 75,661,648 kWh; rev. $2,730,459. (1919)[5]

SODA SPRINGS Mun. Power & Light, 9 W. Second St., 83276, 208/547-2151, Roy Rainey, city admin.; 1,650 met.; gen. 535 kW hydro, 2,326,600 kWh; pur. 22,120,000 kWh; rev. $1,244,848. (1912)[3]

WEISER, City of, Electric, 55 W. Idaho St., 83672, 208/549-1965, Robert L. Hogg, city admin.; 2,479 met.; no gen.; pur. 40,695,000 kWh; rev. $1,402,103. (1908)[5]

WORLEY, City of, Box 218, 83876, 208/686-1258, Kathy Green, city clerk, 94 met.; no gen.[4]

ILLINOIS

ALBANY, Village of, Elec. Dept., Box 356, 61230, 309/887-4064, Gary Gooch, supt.; 403 met.; no gen.; pur. 4,177,000 kWh; rev. $195,899.[5]

ALLENDALE Mun. Util., Box 85, 62410, 618/299-3181, Robert K. Kight, supt.; 272 met.; no gen.; pur. 2,603,200 kWh; rev. $143,242. (1949)*[3]

ALTAMONT Mun. Elec., 202 N. Second St., 62411, 618/483-5212, Terry White, supt.; 1,224 met.; no gen.; pur. 14,293,644 kWh; rev. $921,893 (1901)[4]

BATAVIA, City of, 101 N. Island Ave., 60510, 312/879-1424, Mariano Perez, supt. of elec.; 5,477 met.; no gen.; pur. 114,005,292 kWh; rev. $9,093,040. (1898)[5]

BETHANY, Mun. Power, 201 W. Main, Box 352, 61914, 217/665-3351, Frank Roby, mgr.; 664 met.; no gen.; pur. 6,910,614 kWh; rev. $479,023. (1914)*[5]

BREESE Water & Light Dept., 800 N. First St., 62230, 618/526-7151, Martin F. Johnson; 1,445 met.; gen. 2,000 kW oil (steam turbine), 6,900 kW dual-fuel (eng.), 284,880 kWh; pur. 22,947,180 kWh; rev. $1,273,099. (1906)*[4]

BUSHNELL, City of, Mun. Util.; 148 E. Hail St., 61422, 309/772-2029, Mike McCleery, supt.; 1,263 met.; gen. 6,280 kW int. combus.eng.; 83,440 kWh: pur. 23,076,064 kWh; rev. $1,518,[illegible]32. (1941)*[4]

CAIRO Pub. Util. Comm., 1100 Commercial Ave., 62914, 618/734-3200, Karl H. Klein, gen. mgr.; 2,552 met.; no gen.; pur. 66,664,660 kWh; rev. $3,923,888. (1947)*[5]

CARLYLE Mun. Util., 500 1st St., 62231, 618/594-3321, Edward H. Kleber, supt. of utils.; 1,569 met.; gen. 1,050 kW oil (eng.). 5,000 kW dual-fuel (eng.), 225,000 kWh; pur. 26,051,000 kWh; rev. $1,480,024. (1901)*

CARMI Light & Water, 225 E. Main St., 62821, 618/382-5555, Lawrence Martin, mayor; 3,703 met.; gen. 1,856 kW oil-fired, 14,805 kW dual-fuel, 5,319,500 kWh; pur. 43,917,538 kWh; rev. $3,526,227. (1925)[5]

CASEY, City of, Box 425, 108 E. Main, 62420, 217/932-4885, John O. Bell, supt. of utils.; 1,830 met.; no gen.; pur. 25,037,035 kWh; rev. $2,096,925. (1900)[5]

CHATHAM, Mun. Elec., 117 E. Mulberry, 62629, 217/483-2451, John D. Brown Jr., supt.; 2,300 met.; no gen.; pur. 24,721,200 kWh; rev. $1,144,362. (1942)[5]

FAIRFIELD Mun. Light Plant, N.W. 6th St., 62837, 618/842-4821, Claude Trotter, supt.; 3,190 met.; gen. 2,700 kW oil-fired, 4,800 kW dual-fuel (eng.), 130,000 kWh; pur. 57,453,506 kWh. (1898)[3]

FARMER CITY, Mun. Power Plant, East Allen St., 61842, 309/928-3421, Harold Miller and Dick Carter, supts.; 1,152 met.; gen. 1,983 kW oil, 5,050 dual-fuel eng.; 10,305,600 kWh; pur. 3,283,060 kWh; rev. $602,633. (1888)*[5]

FLORA Mun. Light Plant, 62839, Box 249, 618/662-8314, Al Pierson, head lineman.[5]

FREEBURG, Village of, 101 S. Bellville St., 62243, 618/539-3112, Quinton W. Laabs, dir. of services; 1,380 met.; gen. 1,000 kW oil, 3,485 kW gas, (combus. turbine); 12,000 kWh; pur. 16,894,212 kWh rev. $987.840.[5]

GENESEO Mun. Utils., 433 E. North St., 61254, 309/944-5678, Owen Dean, supt.; 3,003 met.; gen. 19,600 kW, 1,000 kW oil (eng.),18,600 kW dual-fuel (eng.), 15,537,500 kWh; pur. 28,346,000 kWh; rev. $2,895,152. (1933)*†[4]

GENEVA, City of, Mun. Elec. System; 2 W. State St., 60134, 312/232-1503, Reginald Fellhauer, dir.; 4,551 met.; no gen.; pur. 113,138,880 kWh; rev. $8,643,769. (1894)*[5]

GREENUP Light & Power Dept., Box 246, 62428, 217/923-3401, John D. Carr, supt.; 890 met.; no gen.; pur. 8,928,782 kWh; rev. $435,746. (1954)[4]

HIGHLAND, City of, 1115 Broadway, 62249, 618/654-7511, R. Linkenback, dir. of light & power; 4,225 met.; gen. 12,000 kW int. combus. eng.; 231,000 kWh; pur. 80,320,000 kWh; rev. $4,455,000. (1899)*†[5]

LADD, Village of, 121 N. Main, 61329, 815/894-2351, Clarence Foster, supt.; 559 met.; no gen.; sales 4,151,831 kWh.[5]

MARSHALL, City of, 708 Archer Ave., 62441, 217/826-2112, George Smith, supt.; 2,067 met.; no gen.; pur. 27,574,826 kWh; rev. $2,051,934.[5]

MASCOUTAH, City Power & Light Dept., 40 W. Union, 62258. 618/566-2965, D. L. Sitton, city mgr.; 2,204 met.; gen. (peaking only) 10,102 kW, 3,500 kW coal, 2,248 kW oil-fired, 4,354 kW dual-fuel, 27,529,000 kWh; rev. $1,833,028; (1903)[5]

McLEANSBORO Mun. Light & Water Plant, 102 W. Main, 62859, 618/643-2224, William Campbell, supt.; 1,651 met.; pur. 19,317,340 kWh; rev. $1,222,808. (1897)[5]

METROPOLIS, City of, 106 W. Fifth St., 62960, 618/524-4016 or 4212, Curtis Lang, light supt.; 3,500 met.; no gen.[5]

NAPERVILLE Elec. Dept., 175 W. Jackson Ave., 60566, 312/420-6181, Victor Marma, dir. 19,399 met.; no gen.; pur. 417,883,446 kWh; rev. $28,944,590. (1898)*[5]

NEWTON, City of, 108 N. Van Buren, 62448, 618/783-8451, Bob Reynolds, supt.; 1,663 met.; no gen.; pur. 22,149,839 kWh; rev. $1,258.035. (1925)[5]

OGLESBY, City of, 128 W. Walnut St., 61348, 815/883-9380, Craig Stickney, supt.; 1,717 met.; no gen.; pur. 18,266,000 kWh; rev. $959,500. (about 1925)*[5]

PERU Light Dept., City Hall, 1415 Water St., 61354, 815/223-0044, Joe Prazen, supt., 4,566 met.; gen. 28,200 kW, 12,000 kW steam, 6,200 kW oil-fired (eng.), 10,000 kW gas-fired (eng.); pur. 2,558,266 kWh, rev. $3,919,653. (1924)*[4]

PRINCETON Mun. Utils., 2 S. Main St., 61356, 815/872-5551, Steve Finn, mgr.; 3,512 met.; gen. 38,480 kW dual-fuel eng., 852,000 kWh; pur. 70,560,000 kWh; rev. $4,564,000. (1900)*[5]

RANTOUL, Light & Power, 200 W. Grove St., 61866, 217/892-2178, Glenn E. Tadlock, supt.; 5,101 met.; 16,832 kW dual-fuel, 3,023,900 kWh; sales 64,371,921 kWh; rev. $7,257,250. (1898)*[5]

RED BUD, City of, 525 Power St., 62278, 618/282-3339, Ray Mitchell, util. supt.; 1,360 met.; gen. 11,016 kW, 1,556 kW oil-fired eng., 9,460 kW dual-fuel eng., 507,700 kWh; pur. 30,480,700 kWh; rev. $1,783,192. (1904)[5]

RIVERTON, Village of, 313 E. Jefferson St., 62561, 217/629-9122, Michael Brewer, supt.; 950 met.; no gen.; rev. $922,162.[5]

ROCHELLE Mun. Utils., 120 N. Seventh St., 61068, 815/562-4155, Calvin Ruthe, acting supt.; 5,541 met.; gen. 11,500 kW coal (steam turbine), 3,700 kW oil, 15,700 kW (gas), 65,075,800 kWh; pur. 62,378,400 kWh; rev. $8,576,401. (1893)*†[5]

ROCK FALLS, Elec. Dept., 203 E. Third, 61071, 815/625-0949, Robert O'Donnell, dir.; 5,260 met.; no gen.; pur. 61,416,042 kWh; rev. $4,403,489. (1895)*[4]

ROODHOUSE Mun. Elec. Util., 119 W. Palm, 62082, 217/589-4351, Russell Wallis, supt.; 835 met.; no gen.; pur. 7,781,307 kWh; rev. $663,159.[5]

ST. CHARLES, Elec. Util., 2 E. Main St., 60174, 312/377-4407, Patrick J. Boyle, dir. elec. util.; 8,031 met.; no gen.; sales 196,478,796 kWh; rev. $14,731,273. (1892)*[5]

SPRINGFIELD City Water, Light & Power, Municipal Bldg.,Room 201, 7th & Monroe Sts., 62757, 217/789-2000, Frank Madonia, comm.; 55,058 met.; gen. 443,000 kW coal (steam turbine), 41,100 kW oil (combus. turbine), 1,385,055,575 kWh; pur. 28,632,000 kWh; rev. $72,570,844. (1906)*[4]

SULLIVAN, City of, Mun. Utils., 2 W. Harrison St., 61951, 217/728-7622, Bill Harris, line supt.; 2,301 met.; gen. 15,475 kW dual-fuel (eng.), 5,846,400 kWh; pur. 30,528,000 kWh; rev. $2,101,434. (1927)*[5]

WATERLOO, City of, 104 W. Fourth St., 62298, 618/939-6413, Art Fischer, util supt.; 2,148 met.; gen. 4,598 kW oil, 6,850 kW dual-fuel (eng.), 86,000 kWh; pur. 32.1 million kWh; rev. 1,954,274. (1899)[5]

WINNETKA Elec. Plant, 510 Green Bay Rd., 60093, 312/446-2500, Bryan McInturff; 5,042 met.; gen 22,500 kW coal, 22,500 kW gas (steam turbine), 4,800 kW oil (eng.), 59,954,270 kWh; pur. 20,736,484 kWh; rev. $6,571,000. (1900)*[5]

INDIANA

ADVANCE Power & Light, 112 N. Main St., 46102, 317/676-6611; Tom Hendrix, pres.; 259 met.; no gen.; sales 3,025,856 kWh; rev. $181,000. (1914)[5]

ANDERSON Mun. Light & Power, 550 Baxter Rd., 46011, 317/646-5741, Charles J. Myers, supt.; 32,013 met.; no gen.; sales 524,766,519 kWh; rev. $27,601,833. (1897)*[5]

ARGOS Mun. Elec. Util., 119 W. Walnut St., 46501, 219/892-5717, Wilmer Harley, pres., bd. of trustees; 776 met.; no gen.; pur. 12,401,871 kWh; rev. $731,518.[4]

AUBURN Elec. & Water Dept., Corner Cedar & Ninth Sts., 46706, 219/925-0365, Stuart Tuttle, supt.; 4,259 met.; no gen.; pur. 183,816,000 kWh; rev. $8,512,501. (1900)[5]

AVILLA Mun. Elec. Util., 117-121 S. Main St., Box 49, 46710, 219/897-2781, Paul Bolinger, supt.; 529 met.; no gen.; pur. 8,677,200 kWh; rev. $397,408.(1912)[5]

BAINBRIDGE Mun. Elec., 6 W. Main St., 46105, 317/522-6238, James Nelson, supt.; 329 met.; no gen.; pur. 3,520,800 kWh; rev. $177,605. (1915)[4]

BARGERSVILLE Power & Light, Box 420, 46106, 317/422-5115, Joe M. Harrod, supt.; 1,708 met.; no gen.; pur. 24,645,600 kWh; rev. $1,538,603. (1921)*[5]

BLUFFTON Utils., 128 E. Market St., 46714, 219/824-2500, Edward C. Davis, supt.; 4,346 met.; gen. 7,000 kW dual-fuel (eng.); 6,518,800 kWh; pur. 111,077,400 kWh; rev. $5,566,259. (1889)[5]

BOONEVILLE Mun. Elec. Plant, 135 S. Second St., 47601-0508, 812/897-0140, Charles Davis, supt.; 3,300 met.; no gen.; rev. $3,130,878.[5]

BREMEN Elec. Light & Power, 123 S. Center St., 46506, 219/546-4324, Dudley A. Keyser, dir. of oper.; 1,823 met.; no gen.; pur. 50,161,916 kWh; rev. $3,653,242. (1895)*[5]

BROOKLYN Mun. Util., 10 S. Main, 46111, 317/831-3343, Rick Hobious, supt.; 348 met.; no gen; rev. $204,153.[5]

BROOKSTON Mun. Elec. Co., 205 E. 3rd St., Box 187, 47923, 317/563-3171, Charles L. Fountain, supt.; 774 met.; no gen.; pur. 10,720,800 kWh; rev. $439,416. (1916)[3]

CANNELTON Utils., 610 Washington St., 47520, 812/547-7919, Tim Hafele, gen. mgr.; 912 met.; no gen.; pur. 16,430,200 kWh; rev. $248,279. (1941)[5]

CENTERVILLE Power & Light, Box 125, 47330, 317/855-5515, James Bowen, mgr.; 1,243 met.; no gen.; pur. 17,616,000 kWh; rev. $790,454.* (1913)[5]

CHALMERS Mun. Elec. Util., Box 827, 47929, 219/984-5494, Jerry L. Thompson, town bd. pres.; 333 met.; no gen.; pur. 3,225,000 kWh, rev. $301,000. (1915)[5]

COATESVILLE, Town of, Light and Power, North Milton, Box 143, 46124 317/386-7205, James Rollings, plant mgr.; 269 met.; no gen.; pur. 3,108,400 kWh; rev. $172,511. (1912)[4]

COLUMBIA CITY Mun. Elec. S. Chauncey St., 46725, 219/244-5141, Harold Sheets, foreman; 3,828 met.; no gen.; pur. 72,444,000 kWh; rev. $3,112,072.[4]

COVINGTON Mun. Elec., 413 Washington St., 47932, 317/793-2331, Gene Hulbert, supt.; 1,447 met.; no gen.; sales 18,495,485 kWh; rev. $1,164.469. (1913)*[5]

CRAWFORDSVILLE Electric Light & Power, Box 428, 47933, 317/362-1900, Roy E. Kaser, mgr.; 7,842 met.; gen. 24,150 kW coal, 42,960,625 kWh; sales 289,744,239 kWh; rev. $13,868,638. (1890)*[5]

DARLINGTON Light & Power Co., 104 S. Franklin St., 47940-0125, 317/794-4496, Wesley D. Tribbett, supt.; 564 met.; no gen.; pur. 7,500,000 kWh; rev. $372,180. (1919)*[3]

DUBLIN Mun. Elec., Box 145, 47335, 317/478-4878, Monica V. Davis, clerk-treas.; 453 met.; no gen.; pur. 4,182,400 kWh; rev. $214,636. (1920)[5]

DUNREITH Elec. Dept., Box 282, 47337, 317/987-7474, Shelby Linville, clerk-treas.; 200 met.; no gen.; pur. 1,097,600 kWh; rev. $74,931.[5]

EDINBURGH Mun. Elec. Util., 107 S. Holland St., 46124, 812/526-2919, Betty M. Essex, town mgr.; 2,321 met.; no gen.; pur. 58,051,200 kWh; rev. $2,952,107. (1898)*[5]

ETNA GREEN Elec. Light Dept., Box 171, 46524, 219/387-3835, William Price, supt.; 300 met.; no gen.[4]

FERDINAND Mun. Elec. Dept., W. Fifth St., Box 7, 47532, 812/367-1011, James R. Meyer, supt.; 730 met.; no gen.; pur. 12,500,000 kWh; rev. $629,918. (1922)[5]

FLORA Elec. Util., 27 W. Main, 46929, 219/967-4844, Charles Everett, util. mgr.; 1,176 met.; no gen.; pur. 24,369,744 kWh; rev. $1,124,519. (1946)*[5]

FRANKFORT City Light & Power, Box 458, 46041, 317/659-3362, Thomas E. Donoho, supt.; 8,785 met.; pur. 195,000,000 kWh; rev. $9,600,000. (1902)*[5]

FRANKTON Elec. Util., Box 286, 46044, 317/754-7285, Russell D. Swaim Jr., supt.; 1,012 met.; no gen.; pur. 14,349,600 kWh; rev. $3,414,059. (1900)*[3]

GARRETT Mun. Utils., S. Randolph St., 46738, 219/357-4400, William

Rex Frain, supt.; 2,417 met.; no gen.; pur. 39,960,000 kWh; rev. $1,812,120. (1896)[3]

GAS CITY Utilities, 211 E. Main, 46933, 317/674-7275, Joe Miitsch, utils. supt.; 3,094 met.; no gen.; pur. 44,006,000 kWh; rev. $2,081,338.*[5]

GREENDALE Utils., 510 Ridge Ave., Lawrenceburg, 47025, 812/537-2125, F. R. Rudolph, supt.; 1,763 met.; no gen.; sales 64,668,343 kWh; rev. $3,052,542. (1934)*[5]

GREENFIELD Power and Light, 333 S. Franklin St., Box 456, 46140, 317/462-8522, Dick Towne, supt.; 4,693 met.; no gen.; pur. 85,344,000 kWh; rev. $3,438,899. (1898)*[5]

HAGERSTOWN, Town of, Elec. Util., 49 E. College St., 47346, 317/489-5132, Ron Roach, supt.; 1,200 met.; no gen.; pur. 19,000,000 kWh; rev. $1,003,000. (1923)[5]

HUNTINGBURG Mun. Elec. Util., 511 Fourth St., 47542, 812/683-2211, Loma Wm. Hartke, supt.; 2,670 met.; no gen.; pur. 52,908,000 kWh; rev. $2,481,513.*[5]

JAMESTOWN Mun. Light Dept., Box 128, 46147, 317/676-6331, W. D. Henry, supt.; 420 met.; no gen.; pur. 5,691,200 kWh; rev. $275,140. (1917)*[3]

JASPER Mun. Elec., Box 150, 47546, 812/482-3003, Gordon Houchin, elec. mgr., 4,341 met.; gen. 14,500 kW coal, 79,044,000 kWh; pur. 101,130,000 kWh; rev. $7,242,480.(1904)[5]

KINGSFORD HEIGHTS, Town of, Mun. Elec.Util., 504 Grayton Rd.,46346, 219/393-3309, Ron Cooper, supt.; 512 met.; no gen.; pur. 4,735,835 kWh; rev. $382,998. (1964)[5]

KNIGHTSTOWN Light Util., 26 S. Washington St., 46148, 317/345-5977, Lillian Williams, clerk-treas.. 1,545 met.; no gen., pur. 17,894,400 kWh; rev. $945,697. (1894)[5]

LADOGA Light and Power, 121 E. Main, Box 187, 47954, 317/942-2531, James Cross, supt. of utils.; 591 met; no gen. [5]

LAWRENCEBURG Mun. Utils., 405 Main St., Box 112, 47025, 812/537-2420, Roland Horney, dir. of utils.; 2,529 met.; no gen.; pur. 64,690,595 kWh; rev. $3,358,308.*[5]

LEBANON, City of, Utils., 201 E. Main St., Box 479, 46052, 317/482-5100, James B. Nelson, mgr.; 5,838 met.; no gen.; sales 97,272,000 kWh; rev. $5,195,000. (1942)*[5]

LEWISVILLE Mun. Light Dept., Box 288, 47352, 317/987-7979, Jim Thompson, supt.; 226 met.; no gen.[5]

LINTON Mun. Utils., 49 N.W. "A" St., 47441, 812/847-9350, Robert Lemonds, supt. of utils.; 3,332 met.; no gen.; sales 42,720,475 kWh; rev. $2,309,781. (1912)*[5]

LOGANSPORT Mun. Util., City Bldg., 46947, 219/753-6231, K. W. Hemberger, supt.; 11,638 met.; gen. 17,500 kW oil, 38,500 kW coal (steam turbine); 115,530,040 kWh; pur. 154,836,503 kWh; rev. $14,816,443.*[5]

MIDDLETOWN Elec. Util., 102 N. Fifth St., 47356, 317/354-2911, Richard Westrater, supt.; 1,250 met.; no gen.; pur. 14,191,200 kWh; rev. $638,881. (1911)*[3]

MISHAWAKA Mun. Utils., 126 N. Church St., 46544, 219/258-1630, Roger W. Bock, gen. mgr.; 19,729 met.; no gen.; pur. 303,336,000 kWh; rev. $15,034,465. (1904)*†[5]

MONTEZUMA Mun. Utils., 1235 N. Jackson, 48762, 317/245-2759, Robert Allen, supt.; 675 met.; no gen.; pur. 7,008,496 kWh.[5]

NEW CARLISLE Mun. Elec. Util., 113 S. Arch St., 46552, 219/654-3733, Dennis Damp, town electrician, 650 met.; no gen.; pur. 7,574,400 kWh; rev. $347,650. (1905)[5]

NEW ROSS Elec. Service Dept., Box 156, 47968, 317/723-1154, Harold Poland, supt.; 208 met.; no gen.; pur. 1,998,400 kWh; rev. $120,160.[5]

PAOLI Water & Light Dept., Mun. Bldg., 47454, 812/723-2739, Herbert Bostock, supt.; no gen.*[5]

PENDELTON Mun.Elec. Co., 119 W. State St., Box 230, 46064, 317/778-2173, Jack Guard, supt.; 1,516 met.; no gen.; pur. 22,898,400 kWh; rev. $1,137,800.*[4]

PERU, City of, Utils., Box 67, 46970, 317/473-6681, William H. Buffington, mgr.; 9,942 met.; gen. 32,000 kW coal (steam turbine), 5,020,885 kWh; pur. 129,944,000 kWh; rev. $7,897,084. (1903)*[5]

PITTSBORO Mun. Light Plant, Box 185, 46167, 317/892-3326, Charles Water, supt.; 399 met.; no gen.[5]

RENSSELAER, City of, Mun. Elec. Util., 122 S. Van Rensselaer St., 47978, 219/866-7884, Marvin Amsler, line supt.; 2,537 met.; no gen.; sales 52,368,601 kWh; rev. $4,782,459. (1896)*[5]

RICHMOND Power and Light, Box 908, 47375, 317/935-3131, Irving A. Huffman, gen. mgr.; 20,202 met.; gen. 97,500 kW steam turbine, 481,115,700 kWh; sales 559,015,347 kWh; rev. $25,473,862. (1902)*[5]

RISING SUN Mun. Utils., First and Poplar Sts., Box 38, 47040, 812/438-3616, Gerald B. White, supt.; 1,500 met.; no gen.; pur. 17,692,500 kWh; rev. $977,473. (1939)*[5]

ROCKVILLE Elec. Light Plant, 105 W. High St., 47872, 812/569-5145, James Skelton, supt.; 1,647 met.; no gen.; pur. 22.4 million kWh; rev. $1,082,000.[4]

SCOTTSBURG Mun. Elec. Light Dept., 2 E. McClain, 47170, 812/752-4343, Herbert Robison, supt.; 3,000 met.; no gen.; pur. 48,000,000 kWh; rev. $100,000. (est. 1902)*[3]

SOUTH WHITLEY Mun. Elec., 202 East Front St., Box 372, 46787, 219/723-4741 or 5312, Steve Lewis, supvr. elec. dept.; 867 met.; no gen.; pur. 16,484,800 kWh; rev. $851,143. (1895)*[5]

SPICELAND Mun. Light Plant, 130 E, Main, 47385, 317/987-1211, Patsy Dobbs, city clk.; 550 met.; no gen.[5]

STRAUGHN Mun. Elec. Plant, 47387, 317/891-3166, Eldon Sons, supt.; 167 met.; no gen.; pur. 1 million kWh; rev. $55,800.[4]

TELL CITY Elec. Dept., Box 9, City Bldg., 47586, 812/547-3201, Jack M. Joyce, supt.; 4,161 met.; no gen.; pur. 99,708,000 kWh; rev. $4,096,624. (1941)*[3]

THORNTOWN Utils., 109 W. Main St., 46071, 317/436-2627, Jack Hutchens, supt.; 711 met.; no gen.; pur. 8,607,600 kWh; rev. $362,688. (1951)[3]

TIPTON Mun. Elec. Util., 225 E. Jefferson St., 46072, 317/675-7629, Noel C. Olse, util. mgr.; 3,616 met.; no gen.; pur. 73,123,200 kWh; rev. $3,557,906. (1901)*†[5]

TROY Utils., Box 57, 47588, 812/547-7501, Charles Kuntz, supt.; 320 met.; no gen.; pur. 4,870,800 kWh; rev. $261,523. (1941)[5]

VEEDERSBURG Mun. Elec. Util., 118 Railroad Ave., 47987, 317/294-2728, Charles R. Shelton, supt.; 1,024 met.; no gen.; pur. 11,473,600 kWh; rev. $608,679. (1898)[5]

WALKERTON Elec. Dept., 510 Roosevelt Rd., 46574, 219/586-3613, Marvin Williams, supt.; 1,050 met.; no gen.; pur. 18.1 million kWh;rev. $946,700.[4]

WARREN Mun. Elec., Box 477, 46792, 219/375-3424, Charles Booher, supt.; 700 met.; no gen.; 11.2 million kWh; rev. $548,101.[4]

WASHINGTON City Light & Power, City Hall, 101 N. E. Third St., 47501, 812/254-2730 & 254-5171, Brayton Nalker, supt.; 7,276 met.; no gen.; pur. 102,456,000 kWh; rev. $4,506,034. (1926)*[3]

WAYNETOWN Mun. Elec. Dept., Box 215, 47990, 317/234-2154, Richard Peterman, supt.; 470 met.; no gen.; pur. 4,204,000 kWh; rev. $248,586.[5]

WILLIAMSPORT Elec. Util., Town Hall, 29 N. Monroe St., 47993, 317/762-3257, Jim Ottinger, city clk. (1899)[5]

WINAMAC Mun. Light & Power, 120 Main St., 46996, 219/946-3451, A. Allen Boos, mgr.; 1,610 met.; no gen.; sales 32,485,056 kWh.; rev. $3,068,040.(1895)*†[5]

IOWA

AFTON Mun. Elec. Light System, City Hall, 101 W. Kansas, 50830, 515/347-5224, Bob Fisher, elec. supt.; 470 met.; no gen.; pur. 5,256,000 kWh; rev. $373,647.[5]

AKRON, City of, Box 85, 51001, 712/568-2041, Robert Borchers, dir. of pub. wks.; 794 met.; pur. 11,041,273 kWh; rev. $390,454. (1921)*[5]

ALGONA Mun. Utils., 104 W. Call St., 50511, 515/295-3584, Nicholas R. Scholer, gen. mgr.; 3,493 met.; gen. 27,500, 15,000 kW coal, 12,500 kW oil (eng.); 91,149,816 kWh; pur. 16,735,400 kWh; rev. $4,340,514. (1898)*[5]

ALTA Mun. Utils., 223 Main St., 51002, 712/284-1122, Ronald L. Deiber, supt.; 1,037 met.; gen. 1,250 kW oil-fired; 2,250 kWh; pur. 11,912,312kWh; rev. $423,848. (1893)*[5]

ALTA VISTA Elec. Dept., City Hall, 50603, 515/364-6732, Daniel White; 105 met.; no gen.; pur. 1.6 million kWh; rev. $44,342.[4]

ALTON Mun. Elec., Box J, 51003, 712/756-4314, Curtis Punt, pub. works dir.; 560 met.; no gen.; pur. 6,507,217 kWh; rev. $380,349. (1968)*†[5]

AMES Mun. Elec. System, Municipal Bldg., 50010, 515/232-6210, Merlin C. Hove, dir.; 14,148 met.; gen. 81,000 kW, 60,000 kW steam, 20,000 kW gas turbine, 1,000 kW eng., 222 million kWh; pur. 75.4 million kWh; rev. $15,692,217. (1896)*†[4]

ANITA Mun. Utils., 828 Main St., 50020, 712/762-3845, Edward J. Brownsberger Jr., supt.; 608 met.; gen. 747 kW oil (eng.), 4,400 kWh; pur. 59,092,671 kWh; rev. $241,859. (1939)[5]

ANTHON, City of, 301 E. Main, 51004, 712/373-5218, Robert L. Kindig, maint.; 365 met.; no gen.; pur. 4,893,669 kWh; rev. $314,228. (1976)[5]

APLINGTON Mun. Light System, 927 Parrott, 50604, 319/347-2425, Timothy Ubben, supt.; 488 met.; no gen.; rev. $271,000.[5]

ATLANTIC Mun. Utils., 15 W. 3rd St., Box 517, 50022, 712/243-1395, Richard J. Stevens, supt.; 4,373 met.; gen. 26,650 kW, 17,500 kW coal, 5,000 kW gas, 4,150 kW gas (eng.), 77,792,000 kWh; pur. 39,972,535 kWh; rev. $4,188,843. (1908)*[5]

AUBURN Mun. Elec. Util., Box 238, 51433, 712/688-7734, Larry R. Finley, mayor; 185 met.; no gen.; pur. 1,643,800 kWh, rev. $118,811.[5]

AURELIA Mun. Elec. Util., 235 Main St., 51005, 712/434-2025, Edmund Radke, trustee chmn., 567 met.; no gen.; pur. 6,587,364 kWh; rev. $426,493. (1974)[5]

BANCROFT Mun. Utils., 108 N. Portland St., 50517, 515/885-2772, Walter Fangman, supt.; 580 met.; gen. 1,500 kW oil, 32,800 kWh; pur. 9,454,377 kWh; rev. $531,350. (1939)*[3]

BELLEVUE Mun. Utils., 900 N. Riverview, 52031, 319/872-3357, Ray Beschen, supt.; 1,617 met.; gen. 5,320 kW eng., 79,700 kWh; pur. 15,408,600 kWh; rev. $842,224. (1896)[3]

BLOOMFIELD Mun. Light Plant, 111 W. Franklin St., 52537, 515/664-2260, Mike Irven, pub. wks. dir.; 1,335 met.; gen. 7,100 kW dual-fuel, 1,500 kW diesel; 2,561,000 kWh; pur. 22,664,000 kWh; rev. $1,369,167. (1911)[5]

BREDA Elec. System, 51436, 712/673-2660, Jim Uleding, mgr.; 272 met.; no gen.; rev. $111,707.[4]

BROOKLYN Mun. Elec. Plant, 207 Front St., 52211, 515/522-9292, Dale Hawkins, mgr.; 802 met.; gen. 2,424 kW eng., pur. 9,826,100 kWh; rev. $424,983. (1940)[5]

BUFFALO, City of, 52728, 319/381-2226, Carol Bernauer, city admin.; Ralph Jewett, pub. wks. supvr., 520 met.; no gen.[4]

BURT Mun. Elec. Util., 119 Walnut St., Box 128, 50522, 515/924-3618, James H. Redemske, supt.; 295 met.; no gen.; pur. 3,621,485 kWh; rev. $233,991. (1920)[5]

CALLENDER, City of, 414 Thomas St., 50523, 515/548-3859, Craig Hanson, 183 met.; no gen.; pur 1,762,000 kWh; rev. $129,306. (1965)[5]

CARLISLE Mun. Elec. Util., Box 430, 50047, 515/989-0840, Fred Loudenslager, supt.; 1,324 met.; no gen.; pur. 14,601,000 kWh; rev. $815,412. (1931)[4]

CASCADE Mun. Utils., 201 Pierce S.W., 52033, 319/852-3614, Fred A. Kremer, gen. mgr.; 888 met.; gen. 300 kW oil (eng.), 3,557 kW dual-fuel, 43,200 kWh; pur. 9,679,789 kWh; rev. $653,079. (1940)[5]

CEDAR FALLS Utils., 612 E. Twelfth St., 50613, 319/266-1761, Dean Crowe, gen. mgr.; 14,174 met.; gen. (excludes cogen.) 36,700 kW coal, 52,000 kW coal-gas (steam turbine), 20,000 kW dual-fuel (gas combus turbine), 129,470,080 kWh; pur. 163,573,000 kWh; rev. $13,278,010. (1913)*[5]

COGGON Mun. Light Plant, 131 W. Main St., 52218, 319/435-2436, Robert L. Farley, supt.; 345 met.; gen. 1,090 kW oil-fired eng., 74,760 kWh; pur. 3,058,040 kWh; rev. $225,485. (1927)[5]

COON RAPIDS Mun. Utils., 123 3rd Ave., Box 207, 50058, 712/684-2225, Eugene P. Smith mgr.; 769 met.; gen. 5,716 kW, 3,126 kW coal, 2,590 kW oil, comb. eng., 15,672,786 kWh; pur. 14,247,930 kWh; rev. $987,876. (1936)*†[5]

CORNING Mun. Utils., 501 Benton Ave., 50841, 515/322-3920, Dean R. Davis, mgr.; 1,156 met.; gen. 6,362 kW oil, 27,540 kWh; pur. 15,513,489 kWh; rev. $503,198. (1936)*†[5]

CORWITH Elec. Dept., 50430, 515/583-2342, Tim Berhow, supt.; 291 met.; no gen.[5]

DANVILLE Municipal, 105 W. Shepherd St., 52623, 319/392-8381, Allen W. Schillie, 402 met.; no gen. pur. 5,174,400, rev. $248,270.[4]

DAYTON Light & Power, 101 S. Main, 50530; 515/547-2711, Shirley B. Miller, city clk.; 466 met.; gen. 318 kW oil-fired eng; 1,065 kW dual-fuel eng.; pur. 4,736,441 kWh; rev. $239,704.[5]

DENISON Mun. Utils., Box 518, 51442, 712/263-4154, Brad Roos, gen. mgr.; 2,867 met.; gen. 1,360 kW dual-fuel eng., (emergency); pur. 68,577,744 kWh; rev. $3,978,341. (1914)*†[5]

DENVER City of, Elec. Util., 107 N. State St., City Hall, 50622, 319/984-5642, Larry Zars, city electrn., 750 met.; no gen.; pur. 8,361,600 kWh; rev. $527,991.[5]

DIKE, City of, Main St., 50624, 319/989-2291, Agnes Biersner, city clerk, 400 met.; no gen.; pur. 5,170,500 kWh; rev. $268,389.[4]

DURANT Mun. Elec. Plant, 601 Fourth St., Box 494, 52747, 319/785-6213, V. R. Crist, supt.; 785 met.; gen. 1,718 kW oil (eng.), 2,070 kW dual-fuel (eng.), 97,300 kWh; pur. 11,117,823 kWh; rev. $632,187. (1942)*[4]

DYSART, City of, 436 Main St., 52224, 319/476-5690, Harold Langbehn, supt. of pub. works,; 791 met.; no gen., pur. 8,169,600; rev. $548,108.[5]

EARLVILLE Light & Water System, Box 67, 52041, 319/923-3365, Vincent D. Herman, supt.; 368 met.; no gen.; pur. 3,021,600 kWh; rev. $164,051. (1916)[3]

ELDRIDGE Elec. & Water Util., 214 N. 2nd St., 52748, 319/285-4841, Dorothy Beert; 1,190 met.; no gen.; pur. 17,559,668 kWh; rev. $1,363,664. (1900)*[5]

ELLSWORTH Mun., 1551 DeWitt St., 50075, 515/836-4751, Raymond L. Anderson, supt.; 249 met.; no gen.; pur. 2,523,600 kWh; rev. $150,358.[5]

ESTHERVILLE Mun. Elec. Util., 2 North 7th, 51334, 712/362-7771, Steve Woodley, city mgr.; 3,383 met.; gen. 16,250 kW, 3,450 kW oil-fired, 12,800 kW dual-fuel, 175,300 kWh; pur. 49,669,800 kWh; rev. $2,776,089. (1894)[3]

FAIRBANK, City of, Box 447, 50629, 319/635-2869, Ted Vorwald, supt.; 520 met.; no gen.; pur. 4,659,600 kWh; rev. $319,669. (1920)[5]

FARNHAMVILLE Elec. Dept., Box 206, 50538, 712/462-3366, Dennis Jacobson, supt.; 243 met.; no gen.; pur. 4,112,500 kWh; rev. $216,914.86. (1916)[3]

FONDA Mun. Utils.,City Hall, 50540, 712/288-6618, Bill Tiedeman, city clk.; 406 met.; no gen.[4]

FONTANELLE, City of, 313 Washington St., 50846, 515/745-3961, Delmer D. Miller, supt.; 471 met.; no gen.; pur. 5,437,898 kWh; rev. $192,332. (1914)*†[3]

FOREST CITY Mun. Utils.,Box 346, 50436, 515/582-3574, David Nolton, city admin., 1,410 met.; gen. 14,275 oil-fired (eng.), 258,300 kWh; pur. 50,523,200 kWh; rev. $2,346,068. (1939)*[4]

FREDERICKSBURG, City of, 151 West Main St., 50630, 319/237-5725, Vernon Kerr. supt.; 490 met.; no gen.; pur. 26,714,490 kWh; rev. $1,060,960. (1915)[3]

GLIDDEN, City of, Mun. Util., 108 Idaho St., Box 349, 51443, 712/659-3010, Grace A. Thornton, city clerk; 563 met.; no gen.; pur. 7,299,327 kWh; rev. $271,846. (1911)[5]

GOWRIE Mun. Utils., Box 47, 1102 Main St., 50543, 515/352-3065, Donald G. Borgen, supt.; 596 met.; gen. 3,600 kW oil (eng), 6,800 kWh, pur. 6,650,000 kWh; rev. $524,000. (1934)[5]

GRAETTINGER Mun. Light Plant, Box 178, 51342, 712/859-3844, Steve Helmke, supt.; 557 met.; gen. 845 kW oil-fired eng.; pur. 7,090,600 kWh; rev. $262,367. (1941)*[4]

GRAFTON Elec. Dept., Box 263 50440, 515/748-2961, Chloe Ann Beyer, city clerk; 150 met.; no gen.; sales 1,608,513 kWh; rev. $105,238.[5]

GRAND JUNCTION Mun. Light & Water, 305 S. Eleventh St., 50107, 515/738-2285, Bill Hinds, supt.; 523 met.; gen. 560 kW dual-fuel eng., 47,850 kWh; pur. 4,878,000 kWh; rev. $465,693. (1932)[5]

GREENFIELD Mun. Utils., 211 S. First St., Box 95, 50489, 515/743-2914, Robert Guikema, supt.; 1,368 met.; gen. 5,280 kW oil-fired; pur. 17 million kWh; rev. $815,747. (1890)*[3]

GRUNDY CENTER Mun. Light & Power, 506 Seventh St., 50638, 319/824-5208, Edward (Bob) Ayers, mgr.; 1,520 met.; gen. 5,750 kW eng., 53,375 kWh; pur. 21,775,845 kWh; rev. $1,334,039. (1941)*[5]

GUTTENBERG, City of, Box D-1, 52052, 319/252-1161, James Webb, city mgr.; 1,207 met.; no gen. pur. 13,826,700 kWh; rev. $847,973.[5]

HARLAN Mun. Util., 405 Chatburn Ave., 51537, 712/755-5182, F. James Kalal, gen. mgr.; 2,685 met.; gen. 685,000 kW coal (steam turbine); 5,100 kW oil eng., 8,729,588 kWh; pur. 41,063,968 kWh; rev. $2,284,144. (1891)*[5]

HARTLEY Mun. Utils., 169 S. Central Ave., 51346, 712/728-2240, Dean E. Meyer, supt. pub. works; 902 met.; gen. 1,700 kW eng. (standby); pur. 15,674,971 kWh; rev. $539,384. (1908)*†[5]

HAWARDEN, City of, 700 Seventh St., 51023, 712/552-2565, Russell Harris, supt. pub. wks; 1,530 met.; gen. 200 kW oil, 2,250 kW dual-fuel, eng.; pur. 22,414,212 kWh; rev. $744,359. (1894)*†[5]

HINTON Mun. Elec. System, Box 1023, 51024, 712/947-4129, William Farmer, supt.; 233 met.; no gen.; pur. 3,524,147 kWh; rev. $235,328. (1910)[3]

HOPKINTON Mun. Utils., Box 129, 52237, 319/926-2480, Bob Sewell, supt.; 380 met. (1937)[5]

HUDSON Elec. Dept., Box 536, 50643, 319/988-3600, Edwin Andorf, supt.; 777 met.; no gen.; pur. 14 million kWh; rev. $792,502. (1910)[4]

INDEPENDENCE Mun. Light Plant, 711 Seventh Ave. N.E., 50644, 319/334-3880, Carl Mulvaney, plant supt.; 3,093 met.; gen. 15,174 kW int. combus. eng.; 270,000 kWh; pur. 38,052,000 kWh; rev. $2,452,663. (1920)[5]

INDIANOLA Mun. Util., 111 S. Buxton, Box 445, 50125; 515/961-5710, Roger Wood, gen. mgr.; 4,643 met.; gen. 20,600 kW comb. turbine, 14,132 kW dual-fuel, 34,732 kW other; 1,739,960 kWh; pur. 66,840,000 kWh; rev. $4,182,128. (1891)*†[5]

KELLEY Mun. Dist. System, 1004 Hubbel St., Box 177, 50134, 515/769-2213, Cynthia L. Kaufman, city clerk; 115 met.; no gen.; pur. 915,300 kWh; rev. $49,394.[3]

KEOSAUQUA Light Plant, Box 216, 52565, 319/293-3406, Donald Carruthers, supt.; 729 met.; gen. 1,040 kW eng.; pur. 9.6 million kWh; rev. $512,658.[5]

KIMBALLTON Mun. Light Plant, 51543, 712/773-3451, Lloyd A. Petersen, supt.; 207 met.; gen. 400 kW eng.; pur. 2,286,449 kWh; rev. $95,049.(1921).*†[5]

LAKE MILLS Mun., 201 S. Mill St., 50450, 515/592-2441, Donald F. Wirt, dir. of util.; 1,084 met.; gen. 11,500 kW (dual-fuel) eng., 51,900 kWh; pur. 21,390,902 kWh; rev. $1,089,163. (1932)*[5]

LAKE PARK Mun. Utils., 204 Market, Box 536, 51347, 712/832-3667, Larry D. Krones, supt.; 535 meg.; no gen.; pur. 6,239,401 kWh; rev. $333,974. (1947)*†[5]

LAKE VIEW Mun. Utils., 305 Main St., 51450, 713/657-2212, Eugene G. Meyers, dir. of ops., 1,271 met.; no gen.; pur. 17,029,153 kWh; rev. $549,722. (1915)[4]

LAMONI Mun. Utils., 111 S. Chestnut St., 50140, 515/784-6911, Robert A. Colyer, supt.of utils.; 1,226 met.; gen. 3,508 kW dual-fuel, eng.; 15,800 kWh; sales 14,206,283 kWh; rev. $872,161. (1940)*[5]

LA PORTE CITY Mun. Utils., 200 Main, 50651, 319/342-2053, Chuck Utley, supt., 1,047 met.; gen. 2,400 kW diesel; pur. 13 million kWh; rev. $664,113. (1935)[5]

LARCHWOOD Mun. Elec., 51241, 712/477-2366, William Bontje, mgr.; 310 met.; no gen.; rev. $209,166.[5]

LAURENS Mun. Light & Power Plant, 272 N. 3rd St., 50554, 712/845-4610, Michael D. Sangwin, supt.; gen. 3,126 kW coal (steam turbine), 1,500 kW oil, eng., (standby); 14,468,313 kWh; pur. 14,554,106 kWh. (1949)*[5]

LAWLER Elec. Dept., Box 215, 52154, 319/238-3614, Darlene Franzen, city clerk; 272 met.; no gen.; pur. 2,632,000 kWh.; rev. $177,354.[5]

LEHIGH, City of, Municipal Building, 50557, 515/359-2311, Franklin Boring, supt.; 317 met.; no gen.; pur. 2,048,979; rev. $119,821.[3]

LENOX Municipal Light Plant, Box 96, 50851, 515/333-2550, David D. Ferris, supt.; 737 met; gen. 2,336 kW oil, eng.; 8,222 kWh; pur. 12,129,772 kWh; rev. $374,091. (1931)*†[5]

LIVERMORE Lighting Dept., Box 16,50558, 515/379-1074, Noble Harris, supt.; 300 met.; no gen.[4]

LONG GROVE Mun. Utils., 52756, 319/285-7201, David W. Rea, dir. pub. works; 187 met.; no gen.; pur. 2,106,000 kWh; rev. $149,083.[5]

MANILLA Mun. Service, 166 Sixth Ave., 51454, 712/654-3952, James H. Macumber, supt.; 528 met.; gen. 1,130 kW oil-fired eng., 10,500 kWh; pur. 7,552,600 kWh; rev. $316,299. (1915)*†[5]

MANNING Mun. Light Plant, Box 386, 51455, 712/653-3214, O.R. Fink, chmn., Gerald Beck, mgr.; 856 met.; gen. 1,610 kW oil-fired eng., 1.500 kWh; pur. 22,098,745 kWh; rev. $1,144,739. (1937)*[5]

MAPLETON Mun. Elec. Plant, Front St., 51034, 712/882-1351, Tom LeFebvre, supt., or Mavis Skow, city clerk; 889 met.; no gen.; pur. 11 million kWh; rev. $756,181.[4]

MAQUOKETA Mun. Elec. System, 121 S. Olive St., 52060, 319/652-2484, Patrick Callahan, city mgr.; 3,526 met.; gen. 16,170 kW diesel; pur. 33.2 million kWh; rev. $2,496,000. (1919)*[5]

MARATHON, City of, Attica St., 50565, 712/289-2261, Robert P. Baker, supt.; 267 met.; no gen.; pur. 2,273,600 kWh; rev. $165,507. (1916)[5]

McGREGOR Mun. Utils, 126 1st St., Box 186, 52157, 319/873-2258, David Diehl, bd. chmn; 615 met.; gen. 2,018 kW eng., 48,070 kWh; pur. 7,038,000 kWh; rev. $461,933. (1941)[5]

MILFORD Mun. Utils., 907 Eleventh St., Box 121, 51351, 712/338-4376, Norman Parsons, mgr.; 1,061 met.; gen. 3,500 kW, 2,000 kW coal-fired steam, 1,500 kW dual-fuel, 6,662,693 kWh; pur. 17,623,430 kWh; rev. $542,903. (1935)*[3]

MONTEZUMA Mun. Light & Power, 406 E. Washington, 50171, 515/623-5102, Don H. Fahlenkamp, supt.; 916 met.; gen. 6,438 kW, 2,188 kW oil, 4,250 kW dual-fuel (eng.), 6,438 kW hydro; 14,121 kWh; pur. 13,789,724 kWh; rev. $772,845. (1939)*[5]

MOUNT PLEASANT Mun. Utils., 509 N. Adams St., 52641, 319/385-2121, James Ritter, gen. mgr.; 3,430 met.; gen. 10,500 kW coal, 1,000 kW diesel; 686,136 kWh; pur. 46,872,600 kWh; rev. $3,084,156. (1897)[5]

MUSCATINE Power & Water, 3205 Cedar St., Box 899, 52761, 319/263-2631, Clyde L. Bowen, gen. mgr.; 10,265 met.; gen. 280,000 kW coal (steam turbine), 888,246,700 kWh; pur. 167,627,000 kWh; rev. $62,790,065. (1922)*[5]

NEOLA City of, Box 67, 51559, 712/485-2307, George Soppe, mgr.; approx. 297 met.; no gen.; rev. $154,694.[4]

NEW HAMPTON Mun. Light Plant, 921 Canty Ave., 50659, 515/394-3002, Robert K. Kamrath, supt.; 2,363 met.; gen. 16,020 kW eng., 188,400 kWh; pur. 44,449,858 kWh; rev. $2,229,076. (1903)*[5]

NEW LONDON Mun. Utils., 112 W. Main St., 52645, 319/367-5623, Orville B. Pence Jr., supt.; 1,325 met.; no gen.; pur. 12,196,800 kWh; rev. $700,530. (1909)[3]

OGDEN Mun. Utils., Box 70, 50212, 515/275-2437, Daniel L. Wilson, supt.; 1,041 met.; gen. 3,900 kW eng., 113,600 kWh; pur. 10,526,000 kWh. (1930)*[4]

ONAWA, City of, 914 Diamond, 51040, 712/423-1181, Everett Sorenson, supt. utils.; 1,535 met.; gen. 3,210 kW oil (eng.); pur. 24,301,426 kWh; rev. $1,504,933. (1896)*[4]

ORANGE CITY Mun. Elec., 125 Central Ave., S. E., 51041, 712/737-4885, Allen Roos, city mgr.; 2,105 met.; gen. (standby) 400 kW oil, 3,225 kW dual-fuel eng.; 3,200 kWh; pur. 42,740,037 kWh; rev. $2,360,109. (1921)*†[5]

ORIENT Mun. Utils., Box 116, 50858, 515/337-5711, Martin Wagner, supt.; 220 met.; no gen.[5]

OSAGE Mun. Utils., 720 Chestnut St., Box 207, 50461, 515/732-3731, Weston D. Birdsall, gen. mgr.; 2,019 met.; gen. 11,200 kW dual-fuel (eng.), 687,300 kWh; pur. 25,821,518 kWh; rev. $1,382,390. (1941)*†[5]

OTTUMWA WATER WORKS, 310 S. Wapello St., Drawer A, Ottumwa, 52501, 515/684-4606, John P. Quirk, mgr.; gen. 3,000 kW hydro (excess power sold to Iowa Southern Utilities Co. under arrangement expiring in 1991).[5]

PANORA Mun. Util. Elec., 102 N. W. 2nd, City Hall, 50216, 515/755-2164, V. L. Schieffer Jr., elec. supt.; 635 met.; no gen.; pur. 6 million kWh; rev. $439,845. (1921)[5]

PATON Mun. Elec. Dept.,Box 48, 50217, 515/968-4271, Arthur Subbert, supt.; 160 met.; no gen.[4]

PAULLINA Mun. Utils., 127 S. Main, 51046, 712/448-3428, Robert J. Alborn, city clerk; 692 met.; no gen.; pur. 8,161,802 kWh; rev. $341,482. (1919)*†[3]

PELLA Mun. Power & Light, 717 Main St., 50219, 515/628-2581, George Carson, supt., elec. oper., 3,754 met.; gen. 37,000 kW coal,(steam), 83,633,980 kWh; pur. 6,809,000 kWh; rev. $5,153,670. (1909)[5]

POCAHONTAS Municipal Util., 14 Second Ave., N. W., 50574, 712/335-4841, Greg Smith, elec. supt.; 1,128 met.; no gen.; pur. 15,372,300 kWh; rev. $948,898. (1912)*[5]

PRESTON Mun. Light & Power, Box 37, 52069, 319/689-3081, Gary Driscoll, plant supt.; 574 met.; gen. 4,257 kW eng.; pur. 9.6 million kWh; rev. $583,808. (1939)*[5]

PRIMGHAR Mun. Utils., Box 39, 51245, 712/757-2435, Robert L. Mulder, supt.; 578 met.; gen. 1,580 kW eng.; pur. 7,183,634 kWh; rev. $325,192. (1939)*†[4]

READLYN Mun. Elec., Box 70, 50668, 319/279-3411, Earl Rommel, mayor; 365 met.; no gen.; pur. 3,905,600 kWh; rev. $240,058.[5]

REMSEN Mun. Utils., 205 Fulton St., 51050, 712/786-2136, Louis A. Huewe, supt.; 786 met.; gen. 1,440 kW dual-fuel eng.; pur. 10,850,000 kWh; rev. $565,534. (1933)*†[5]

RENWICK Mun. Light & Power, Box 174, 50577, 515/824-3511, Galen Engstrom, supt.; 374 met.; gen. 483 kW oil-fired eng.; pur. 3,285,633 kWh; rev. $181,863. (1928)[5]

ROCKFORD Mun. Light Plant, 18 First St., So., 50468, 515/756-2215, Richard Graham, supvr.; 572 met.; gen. 1,775 kW diesel; pur. 4.2 million kWh; rev. $295,390. (1935)[5]

ROCK RAPIDS Utils., 301 S. Third Ave., 51246, 712/472-3452, William G. Tobin, mgr.; 1,396 met.; gen. 2,500 kW oil-fired, eng., 10,080 kWh; pur. 17,936,266 kWh; rev. $921,622.(1896)*†[5]

SABULA, Mun. Elec., 52070, 319/687-2420, C.B. Cotton, city mgr.; 398 met.; no gen.; pur. 3,025,000 kWh; rev. $160,933. (1965)[5]

SANBORN Mun. Light Plant, 102 Main St., 51248-0548, 712/729-3974, Allen Bonderman, gen. mgr.; 677 met.; gen. (standby) 900 kW oil (eng.), 544 kW dual-fuel (eng.), pur. 10,047,859 kWh; rev. $537,599.(1947)*†[5]

SERGEANT BLUFF, City of, Box 703, 51054, 712/943-4244, Maynard Kilpatrick; 950 met.; no gen.; rev. $928,340.[4]

SEYMOUR Mun. Utils., Box 54, 52590, 515/898-2301, Steve Bjornson, utils. supt.; 496 met.; no gen.; pur. 5,153,600 kWh; rev. $345,453.[5]

SHELBY Mun. Elec. Util., Box 186, 51570, 712/544-2404, Lawrence Brown, supt.; 342 met.; no gen.; pur. 4,591,998 kWh; rev. $137,248. (1933)*†[5]

SIBLEY Mun. Util., 1108 Third Ave., 51249, 712/754-3454, Mike Pence, admin.; 1,748 met.; gen. 2,500 kW steam, 2,070 kW gas (combus. turbine); 7,065,200 kWh; pur. 31,816,620 kWh; rev. $1,300,953. (1915)*[5]

SIOUX CENTER Mun. Utils, 337 N. Main St., 51250, 712/722-0761, Harold Schiebout, util. supt.; 1,809 met.; gen. 1,465 kW dual-fuel, (standby), 8,400 kWh; pur. 40,452,796 kWh; rev. $1,855,475. (1949)*†[5]

SPENCER Mun. Utils., Box 5046, 51301, 712/262-3027, Neal Drefke, gen. mgr.; 5,369 met.; gen. 31,574 kW, 23,800 kW oil, 7,774 kW coal (steam turbine), 36,514,653 kWh; pur. 87,024,923 kWh; rev. $4,553,639. (1901)*†[5]

STANHOPE, City of, 50246, 515/826-3290, Edward Haman, supt.; 245 met.; no gen.; pur. 2,275,535 kWh; rev. $136,131.[3]

STANTON Elec. Dist. System, Box 280, 51573, 712/829-2613, Larry Johnson, supt.; 313 met.; no gen.; pur. 6,526,487 kWh; rev. $196,884. (1937)[5]

STATE CENTER Municipal, Box 668, 50247, 515/483-2747, Pat Stief; 821 met.; gen. 550 kW oil (eng.), 5,122 kW dual-fuel, 57,700 kWh; pur. 10,965,312 kWh; rev. $703,751. (1899)[5]

STORY CITY Mun. Elec. Util., 505 Market St., 50248, 515/733-4691, Gene R. Twedt, supt.; 2,922 met.; gen. 704 kW oil-fired, 8,316 kW dual-fuel, 482,900 kWh; pur. 21,674,532 kWh; rev. $1,219,416.(1904)*†[4]

STRATFORD Light & Power, Box 218, 50249, 515/838-2311, Geraldine Conklin, city clerk; 407 met.; no gen.; pur. 3,757,440 kWh; rev. $193,840. (1920)[5]

STRAWBERRY POINT Mun. Light Plant, 111 Commercial, Box 279, 52076, 319/933-4482, Ewald Maker, supt.; 697 met.; gen. 2,467 kW dual-fuel eng.; pur. 6,550,000 kWh; rev. $376,977. (1928)[3]

STUART Mun. Util., 108 Fremont St., 50250, 515/523-2915, William Gilliam, supt.; 844 met.; gen. 2,945 dual-fuel, 82,200 kWh; pur. 10,015,170 kWh; rev. $499,036. (1891)*[5]

SUMNER Mun. Light Plant, 105 Wapsie St., 50674, 319/578-5611, Robert Jergens, supt,; 1,153 met,; gen. 1,640 kW oil, 3,820 kW dual-fuel eng. (standby only); pur. 13,462,358 kWh; rev. $933,738. (1935)*[5]

TENNANT Elec. Dept., 51574, 712/744-3483, Kenneth Turner, mayor; no gen.; 25 met.; rev. $22,833.[4]

TIPTON City of, 407 Lynn St., 52772, 319/886-6187, Robert E. Snavely, city coordinator; 1,635 met.; gen. 700 kW oil (eng.), 2,700 kW dual-fuel, (standby only); 105,100 kWh; pur. 12,566,194 kWh; rev. $1,051,970. (1916)*[5]

TRAER Mun. Util., 649 Second St., 50675, 319/478-8760, Kent Holst, gen. mgr.; 1,036 met.; gen. 4,732 kW int. combus. eng.; 314,400 kWh; pur. 11,980,800 kWh; rev. $803,977. (1917)*†[5]

VILLISCA Mun. Power Plant, City Hall Bldg., 50864, 712/826-3192, Herbert A. Phillis, supt.; 1,003 met.; gen. 906 kW oil, 1,600 kW dual-fuel (eng.), 2,506 kW hydro; 1,000 kWh; pur. 10,257,628 kWh; rev. $258,161. (1936)*†[5]

VINTON Mun. Utils., 501 First Ave., 52349, 319/472-3663, Collin D. Engebretson, supt. of utils; 2,326 met.; gen. 15,500 kW, 2,265 kW oil, 13,235 kW dual-fuel (eng.); 1,724,700 kWh; pur. 27,756,000 kWh; rev. $1,797,954. (est. 1913)[5]

WALL LAKE, City of, 51466, 712/664-2216, Orville Franck, mayor; 450 met.; no gen.; pur. 8,771,184 kWh; rev. $321,697. (1903)*†[5]

WAVERLY Mun. Elec. Util., 1500 W. Bremer Ave., 50677, 319/352-6251, Robert Morse, dir. of elec. utils.; 3,749 met.; gen. 664,690 kW, 16,195 kW gas (combus. turbine); 495 kW hydro, 13,999,700 kWh; pur. 61,561,333 kWh; rev. $4,966,736. (1904)*[5]

WEBSTER CITY, City of, Mun. Elec., Mun. Bldg., 50595, 515/832-5701, Jerry Kent, city mgr., 4,244 met.; no gen., pur. 83,658,987 kWh; rev. $4,689,629. (1890)*[5]

WEST BEND Mun. Light and Power Co., Box 411, 50597, 515/887-3111; Robert Sewell; 649 met.; gen. 4,447 kW, dual-fuel, 300 kW oil-fired eng.; 93,300 kWh. pur. 12,001,932 kWh; rev. $875,836.(1915)*[5]

WESTFIELD Elec. Dept., 51062, Box 5, 712/568-2631, Marietta Brown, mayor; 90 met.; no gen.; rev. $48,000.[5]

WEST LIBERTY, Mun., 101 W. 4th St., 52776, 319/627-2418, 1,250 met.; gen. 5,500 kW dual-fuel, 856 kW oil-fired eng., 681,200 kWh; pur. 42,323,400 kWh; rev. $1,943,247. (1897)[4]

WEST POINT Mun. Utility, 313 Fifth St., 52656, 319/837-6313, Dean Torreson, util. dir.; 636 met.; no gen.; pur. 9,302,400 kWh; rev. $509,958.[5]

WHITTEMORE Mun. Utils., 310 - 4th St., Box 127, 50598, 515/884-2631, Mike Elbert, supt. of utils.; 253 met.; gen. 2,203 kW dual-fuel int. combus. eng.; 25,800 kWh; pur. 4,362,944 kWh; rev. $241,587.[5]

WILTON Mun. Light & Power, 220 W. Third St., 52778, 319/732-2929, Rick J. Cayton, supt.; 1,253 met.; gen. 4,385 kW; 335 kW oil; 4,050 kW dual-fuel (eng.); 212,400 kWh; pur. 16,327,898 kWh; rev. $1,080,691. (1891)*[5]

WINTERSET Mun. Utils., 321 N. First St., 50273, 515/462-2152, George C. Berry, supt.; 1,957 met.; gen. 8,480 kW, 4,480 kW dual-fuel eng., 236,000 kWh; pur. 26,329,456 kWh; rev. $1,579,349. (1895)*[4]

WOODBINE Mun. Light and Power, 517 Walker St., 51579, 712/647-2340, Bruce Walters, supt.; 1,027 met.; no gen.; pur. 12,217,536 kWh; rev. $480,968.(1941).*†[5]

WOOLSTOCK Elec. Dept., 50599, Box 57, 515/839-5531, Hazel Brock, city clerk; 120 met.; no gen.[5]

KANSAS

ALMA, City of, 326 Missouri, 66401, 913/765--3922; Max Kraus, supt., light plant; 473 met.; no gen.; pur. 4,900,600 kWh; rev. $329,805. (1938)[3]

ALTAMOUNT, City of, Box 305, 67330, 316/784-5503, Denzil Davidson, utils. supt.,515 met.; no gen.; pur. 5.8 million kWh; rev. $346,300. (1934)[4]

ANTHONY, City of, Box 504, 67003, 316/842-5960, Jack C. Scott, supt. of utils.; 2,285 met.; gen. 12,000 kW; 3,000 kW gas, 9,000 kW dual-fuel (eng.); 2,739,000 kWh; pur. 23,387,400 kWh; rev. $1,602,596. (1879)*[5]

ARCADIA City of, Box 126, 66711, 316/638-4310, Jim Krieger; 258 met.; no gen.; sales 1,219,465 kWh; rev. $102,905.[5]

ARMA, City of, 701 E. Washington, Box 829, 66712, 316/347-4125, James C. Jones, util. supt., 814 met.; no gen.; pur. 9,371,880 kWh; rev. $417,089. (1909).[5]

ASHLAND, City of, Box 547, 67831, 316/635-2531, Don German, city supt.; 715 met.; gen. 4,975 kW dual-fuel eng., 8,763,000 kWh; sales 7,177,032 kWh; rev. $525,595. (1909)[5]

ATTICA, City of, 101 N. Main, 67009, 316/254-7216, Donald Bateman, gen. supt.; 457 met.; no gen.; pur. 3,301,207 kWh; rev. $392,134.[5]

AUGUSTA Mun. Elec. Dept., Box 489, 67010, 316/775-2391, H.H. Blair, city mgr.; 3,189 met.; gen. 1,106 kW oil-fired, 23,636 kW dual-fuel, 2,025,550 kWh; pur. 44,294,600 kWh; rev. $2,839,078. (1911)[5]

AXTELL Electric, 401 Maple, Box A, 66403, 913/736-2834 or 2351, Roger Koch, supt.; 237 met.; no gen.; pur. 1,872,000 kWh; rev. $143,400.[5]

BALDWIN CITY Mun. Light & Water Dept., 605 High, 66006, 913/594-6427, John Hill, supt.; over 1,100 met.[5]

BELLEVILLE, City of, Electric, Box 280, 66935, 913/527-2288, Richard E. Cotton, city mgr.; 1,530 met.; gen. 13,125 kW dual-fuel, 19,127,400 kWh; sales 16,640,838; rev. $1,337,000. (1923)*[5]

BELOIT Mun. Power Plant, 215 S. Chestnut, 67420, 913/738-5121, Jack Saltkill, gen. supt.; 2,135 met.; gen. 19,350 kW eng., 650 kW organic Rankine cycle, 14,150,300 kWh; pur. 18,305,200 kWh; rev. $2,092,958. (1908)*[5]

BLUE MOUND Mun. Dist. System, 66010, Lloyd Spillman, supt. light plant; 185 met.; no gen.; pur. 1.3 million kWh; rev. $62,926.[4]

BRONSON Mun. Light & Power, 411 Clay St., 66716, 316/939-4578. (1926)[5]

BURLINGAME, City of, 101 E. Santa Fe, 66413, 913/654-3922, Norman Bloomquist, supt., 623 met.; gen. 4,630 kW dual-fuel, 5,404,636 kWh; rev. $510,783. (1902)[5]

BURLINGTON, City of, Mun. Light & Power Dept., 301 Neosho St., 66839, 316/364-5575, Alfred Mann, elec. supt., 1,600 met.; gen. 8,420 kW gas-fired (eng.), 3,125,620 kWh; pur. 19,106,000 kWh; rev.$1,549,000. (1935)[5]

CAWKER CITY, Mun. Light and Water, 804 Locust St., Box 2, 67430, 913/781-4713, Delbert Wallace, elec. supt.; 440 met.; no gen.; pur. 3,728,000 kWh; rev. $286,533. (1913)[5]

CENTRALIA, City of, 66415, 913/857-3877, G.L. Luebbe, elec. supt.; 282 met.; no gen.; pur. 2,605,600 kWh; rev. $214,617.[5]

CHANUTE, City of, Mun. Elec. Dept., 1002 E. 14th St., Box 907, 66720, 316/431-9306, Ronald Reed, dir. elec. util., 6,195 met.; gen. 22,200 kW, 16,500 kW steam, 1,700 kW oil, 4,000 kW dual-fuel, 2,129,250 kWh; pur. 89,079,600 kWh; rev. $5,376,028. (1903)*[5]

CHAPMAN Electric, 402 Marshall, Box 321, 67431, 913/922-6582, James Murrison, lt. and water supt.; 660 met.; no gen.; pur. 5,926,400 kWh; rev. $478,016. (1911).[5]

CHETOPA, City of, Box 203, 67336, 316/236-7511, Betsy Sanders, city clk.; 750 met.; no gen.[5]

CIMARRON, City of, Box 467, 67835, 316/855-2322, Vernon Hanna, city supt.; 804 met.; no gen.; pur. 11,596,800 kWh; rev. $875,531.[5]

CLAY CENTER, Mun. Elec. & Water, 427 Court St., Box 117, 67432, 913/632-2137, D. D. Dierking, supt. of util.; 3,490 met.; gen. 9,500 gas (steam turbine), 7,950 dual-fuel (eng.), 19,964,600; pur. 19,699,200 kWh; rev. $2,536,367. (1907)*[4]

COATS, City of, Box 115, 67028, 316/893-2324, Larry Flory, utils. supt.; 103 met.; no gen.; pur. 580,114 kWh; rev. $34,010. (1920)[3]

COFFEYVILLE Mun. Light & Power, 7th & Walnut, Box 498, 67337, 316/251-7000, ext. 239, M.A. Buckner, dir. of elec. utils.; 8,614 met.; gen. 80,050 kW steam, 21,307,400 kWh; pur. 127,716,800 kWh; rev. $9,076,422. (1901)*[3]

COLBY, City of, 585 N. Franklin, 67701, 913/462-3973, James D. Whitney, dir. of public power; 2,831 met.; gen. 18,170 kW dual-fuel, (eng.), 1,139,200 kWh; pur. 42,835,561 kWh; rev. $2,375,652. (1910)*[5]

DeSOTO, City of, 108 W. Second St., Box C, 66018, 913/585-1182, Eldon Brown, dir., pub. wks., 790 met.; no gen.; pur. 8,934,400 kWh; rev. $639,914.[5]

DIGHTON, City of, Box 848, 67839, 316/397-5541, Leland Moore; 800 met.; no gen.; pur. 726,505 kWh; rev. $914,228.(1928).[5]

ELLINWOOD, City of, 201 W. 1st St., 67526, John Rapp, supt.; 1,318 met.; gen. 8,479 kW eng.; 2,884,500 kWh; pur. 12,140,800 kWh; rev. $1,299,752. (1948)[5]

ELLIS, Mun. Power Plant,, W. 6th St., 67637, 913/726-4741, Ken King, city supt.; 1,017 met.;gen. 6,185 kW dual-fuel (eng.); 476,000 kWh; pur. 9,572,300 kWh; rev. $792,628. (1928) (Ellis voted in April 1984 to sell to Midwest Energy, a rural electric cooperative in Hays, Kan., but the transfer has not been made yet.)[5]

ELWOOD, City of, Box 357, 66024, 913/365-6871, Benny Townsend, utils. foreman; 500 met.; no gen.; pur. 5,430,000 kWh; rev. $363,356.[5]

ENTERPRISE, City of, Box 245, 67441, 913/934-2323, G. W. (Jude) Saip Jr., city supt.; 350 met.; no gen.; rev. $97,404.[4]

ERIE Mun. Light & Power, 224 S. Main, Box 196, 66733, 316/244-3488, Donald L. Naff, city supt.; 722 met.; gen. 3,050 kW dual-fuel (eng.), (standby only); pur. 8,311,000 kWh; rev. $659,738. (1915)*[5]

EUDORA, City of, Mun. Elec., Seventh and Main, 66025, 913/542-2095, Richard McNett, supt.; 1,063 met.; no gen.; pur. 10,989,600 kWh; rev. $897,691.[5]

FREDONIA Mun. Power Plant, 314 N. Seventh St., 66736, 316/378-2231, D.W. Schoolcraft, comm.; 1,534 met.; gen. 7,200 kW dual-fuel eng. (standby) (1901)[5]

GALVA, City of, 208 S. Main, Box 223, 67443, 316/654-3561, Vernon R. Koehn, city supt.; 342 met.; no gen.; pur. 2,823,900 kWh; rev. $172,619.[3]

GARDEN CITY Mun., 301 N. 9th, Box 499, 67846, 316/276-8263, Deane P. Wiley, city mgr.; 8,593 met.; no gen ; pur. 111,170,740 kWh; rev. $11,170,740.[5]

GARDNER Mun. Elec. System, 112 S. Elma St., 66030, 913/884-7535, Jim Cole, supt.; 1,200 met.; no gen.[5]

GARNETT, City of, Mun. Elec., 131 W. Fifth, 66032, 913/448-5496, R. G. Doran, city mgr.; 1,833 met.; gen. 2,900 kW oil (eng.), 6,392 dual-fuel (eng.), 8,756,600 kWh; pur. 13,823,151 kWh; rev. $1,535,079.(1918)*[4]

GIRARD Mun. Light & Water Plant, 100 S. Ozard, 66743, 316/724-8918, Jean M. Bolin, city clk., 1,564 met.; no gen. pur. 22.7 million kWh; rev. $1,101,669.[4]

GLASCO, City of, Box 356, 67445, 913/568-2705, W. LeRoy Wolf, util. supt.; 400 met.; no gen.; pur. 3.6 million kWh; rev. $221,349.[5]

GLEN ELDER, City of, Box 55, 101 S. Market St., 67446, 913/545-3322, Geneva Winkel, city clk.; 335 met.; no gen.; pur. 2,940,000 kWh; rev. $250,992.[5]

GOODLAND, City of, Mun. Power Plant, 204 W. 11th St., Box 57, 67735, 913/899-5200, Larry Heinrich, plant supt.; 2,887 met.; gen. 21,000 kW, 700 kW oil-fired eng., 20,300 dual-fuel eng.; pur. 14,175,300 kWh; rev. $2,996,206. (1937)*[5]

GREENSBURG Light & Power, 400 N. Main, 67054, 316/723-2691, Melvin Simmons, supt.; 1,000 met.; gen. 8,427 kW dual-fuel eng., 12,533,600 kWh; pur. none; rev. $919,717. (1911)[5]

HAVEN Light, Water & Power, 118 S. Kansas Ave., 67543, 316/465-3618, Don R. Huston, maint. supv.; 535 met.; no gen.; pur. 7,468,000 kWh.[3]

HERINGTON, City of, 715 S. Broadway, 67449, 913/258-2271, W. A. Wetmore, city mgr.; 1,528 met.; gen. 9,700 kW dual-fuel eng., 1,419,800 kWh; pur. 17,976,033 kWh; rev. $1,271,509. (1888)*†[5]

HERNDON, City of, Box 98, 67739, 913/322-5341, Roger Marintzer, mayor; 184 met.; no gen.; pur. 1,139,951 kWh; rev. $134,000. (1937)[5]

HILL CITY, City of, 205 N. Pomeroy, 67642, 913/674-5613, Florent Bellerive, city supvr.; 1,783 met.; gen. 7,265 kW dual-fuel eng., 920,000 kWh; pur. 13,792,600 kWh; rev. $1,180,749. (1900s)[5]

HILLSBORO, City of, 116 E. Grand, 67063, 316/947-3163, Mike Chesterfield, elec. supt.; 1,612 met.; no gen.; pur. 15,966,050 kWh; rev. $987,512. (1930)[5]

HOISINGTON Mun., Box 418, 67544, 316/653-4125, Thomas Milton DeArman III, city mgr.; 1,846 met.; gen. 14,580 kW,200 kW oil (eng.), 14,380 kW dual-fuel (eng.), 6,964,200 kWh; pur. 14,837,490 kWh; rev. $1,495,455. (1940)[4]

HOLTON Power Plant, 430 Penn. Ave., 66436, 913/364-3719, Lyle L. Lee, supt.; 2,300 met.; gen. 14,600 kW eng.; pur. 20,224,800 kWh; rev. $1,213,480. (1931)[3]

HOLYROOD Light & Water Dept., 110 S. Main, 67450, 913/252-3652, Tom Randolph, util. supt.; 300 met.; no gen.; pur. 2.7 million kWh; rev. $240,000. (1918)[5]

HORTON, City of, E. Fifteenth St., 66439, 913/486-3911, Cleo N. Coffman, supt.; 1,002 met.; gen. 3,000 kW dual-fuel eng., 46,600 kWh; pur. 10,417,600 kWh; rev. $652,667. (1912)[3]

HUGOTON City Water & Light Dept., 114 E. Fifth St., Box 788, 67951, 316/544-8531, Everett Rowden, utils. supt.; 1,709 met.; gen. 17,770 kW dual-fuel eng., 23,227,700 kWh; sales 19,541,965; rev. $1,839,035. (1919)*[5]

IOLA, City of, 2 West Jackson St., 66749, 316/365-2771, Les Olm, city supt.; 4,010 met.; gen. 27,500 kW, 10,000 kW gas, 12,000 kW oil, 8,011,600 kWh; pur. 60,060,297 kWh; rev. $3,071,359. (1900)*[5]

ISABEL City Elec. Dept., Box 97, City Hall, 67065, 316/739-4347, Carolyn Armstrong, city clerk; 85 met.; no gen.; pur. 800,000 kWh; rev. $69,000.[5]

IUKA, City of, Box 127, 67066, 316/546-2215, Clyde Pipher, city clerk; 123 met.; no gen; pur. 1,550,000 kWh; rev. $122,402.[4]

JETMORE, City of, Box 8, 67854, 316/357-8344, Dean Hertel, utils. supt., 580 met.; gen 5,000 kW dual-fuel eng. (standby); 97,300 kWh; pur. 6,127,700 kWh; rev. $450,776.[5]

JOHNSON Mun. Power Plant, Main St., Box 500, 67855, 316/492-2322, Rex McGowne, supt.; 660 met.; gen. 4,250 kW dual-fuel eng., 11,649,400 kWh; pur. 326,000 kWh; rev. $768,491. (1938)[5]

KANSAS CITY Bd. of Pub. Utils., 700 Minnesota Ave., 66101, 913/281-8152, V. Eugene Miller, gen. mgr.; 62,433 met.; gen. 721,100 kW, 235,000 kW coal, 366,000 kW dual-fuel (steam turbine), 120,100 kW dual-fuel gas comb. turbine, 53,000 kW hydro; 2,319,869,000 kWh; pur. 120,405,000 kWh; rev. $116,491,706. (1929)*[5]

KINGMAN Elec. Dept., Box 168, 67068, 316/532-3111, Ben M. Payton, supt.; 1,850 met.; gen. 15,760 kW dual-fuel, 32,000,000 kWh; pur. none; rev. $2,000,000. (1913)*[5]

KIOWA, City of, Elec. Util., Box 206, 67070, 316/825-4128, Carol Bloodworth, city admin.; 862 met.; no gen.; pur. 10,756,800 kWh; rev. $853,525. (1976)[5]

LA CROSSE, City of, 1119 Main, 67548, 913/222-2511, Dudley Schutte, city mgr.; 934 met.; no gen.; pur. 10,440,195 kWh; rev. $817,852. (1906)[5]

LA HARPE, City of, Box 121, 66751, 316/496-2241, George Poffenbarger, supt., 397 met.; no gen.; pur. 2,071,026 kWh; rev. $116,161.[5]

LAKIN Elec. Dept., Box 148, 67860, 316/355-6252, John Speer, city admin.; 940 met.; no gen.; pur. 10,422,000 kWh; rev. $1,185,064. (1915)[5]

LARNED, Mun. Utils,, Box 70, 67550, 316/285-2149, Ron Arnold, city mgr.; 2,657 met.; gen. 12,700 kW gas (steam turbine), 1,250 kW gas (comb. turbine), 6,450 kW dual-fuel (eng.), pur. 24,410,400 kWh; rev. $2,424,560. (1916)*[5]

LINCOLN Mun. Power Plant, 153 W. Lincoln, 67455, 913/524-4740, Dan Smith, supt.; 1,029 met.; gen. 11,000 kW dual-fuel (eng.), 10,915,200 kWh; sales 8,774,959 kWh; rev. $935,813. (1906)[5]

LINDSBORG, City of, Utility Dept., Box 70, 67456, 913/227-3355, Ann Gattberg, city admin.; 1,350 met.; no gen. pur. 19,507,200 kWh; rev. $1,405,000.[5]

LUCAS City of, Box 308, 67648, 913/525-6425, Gary Ward, supt.; 317 met., no gen.; pur. 3,214,800 kWh; rev. $276,260.[5]

LURAY, City of, 67649, 913/698-2309, Kurt Walker, supt.; 180 met.; no gen.; pur. 1,639,200 kWh. (1915)[5]

MAHASKA City Elec. Dept., 66955, 913/245-3214, Roger Lambert, supt.; 80 met.; no gen.; pur. 483,000 kWh; rev. $21,565.[4]

MANKATO, City of, Elec. Util., 202 E. Jefferson, Box 2, 66956, 913/378-3141, D. L. Hamilton, city admin.; 729 met.; no gen.; pur. 7,107,200 kWh; rev. $579,397. (1950)[5]

MARION, City of, 203 N. Third, 66861, 316/382-3703, Junior Bredemeier, city supt.; 1,176 met.; no gen.; pur. 11,296,800 kWh; rev. $1,048,502.[5]

McPHERSON Bd. of Pub. Utils., 400 E. Kansas, 67460, 316/241-0661, Tom Bartels, gen. mgr.; 6,896 met.; gen. 218,200 kW, 48,000 kW dual-fuel steam, 114,000 kW dual-fuel (comb. turbine), 56,400 kW oil (comb. turbine), 11,975,000 kWh; pur. 396,559,000 kWh; rev. $15,831,154. (1909)*[5]

MEADE, Municipal, 132 S. Fowler, Box 338, 67864, 316/873-2091, Carrol Webber, city supt.; 953 met; gen. 8,600 kW dual-fuel (eng.), 12,960,500 kWh; sales 10,788,413 kWh; rev. $917,015.(1910)*[5]

MINNEAPOLIS Light Plant, 110 Markley Ave., 67467, 913/392-2152, Leo Baker, supt., 1,046 met.; gen. 8,174 kW dual-fuel, 2,322,350 kWh; pur. 11,357,150 kWh; rev. $804,366. (1921)[3]

MONTEZUMA, City of, Box 37, 67867, 316/846-2264, Dwight Watson, city supt.; 408 met.; no gen.; pur. 5,914,800 kWh; rev. $43,784. (1921)[5]

MORAN, City of, Box 396, 66755, 316/237-4301, Bob Rhodes, supt.; 386 met.; no gen. (1900)[5]

MORRILL, City of, Box 146, 66515, 913/459-2231, Daniel Halstead, util. supt., 179 met.; no gen.; pur. 1,146,000 kWh; rev. $96,040. (1927)[5]

MOUNDRIDGE, City of, 216 S. Christian, 67107, 316/345-2661, Lee Wenger, city admin., 700 met.; no gen.; pur. 11,233,000 kWh; rev. $794,658. (1909)[5]

MOUNT HOPE, City of, Box 56, 67108, 316/667-2211, Chris Rasmussen, supt.; 330 met.; no gen.; pur. 4,304,000 kWh; rev. $330,000.[5]

MULBERRY Mun. Light Plant, Box 338, 66756, 316/764-3815, Frank Tersina, supt.; 350 met.; no gen.; 1.3 million kWh; rev. $100,000. (1915)[5]

MULVANE, City of, 211 N. 2nd St., 67110, 316/777-1143, ext. 33, Gary Rambo, supt.; 1,931 met.; gen. 6,972 kW, 6,272 kW dual-fuel eng., 700 kW hydro, 1,107,180 kWh; pur. 7,045,500 kWh; rev. $1,549,537. (1902)[5]

MUSCOTAH, City of, 66058, 913/872-3536, Robert G. Myers, mayor; 113 met.; no gen.[3]

NEODESHA Mun. Power Plant, West Main St., 66757, 316/325-2925, Alvin L. Schneider, supt., 2,033 met.; gen. 8,150 kW dual-fuel eng., 2,740,800 kWh; pur. 27,252,000 kWh; rev. $2,513,000. (1912)[5]

NETAWAKA Elec. Light System, 66515, Kenneth Keithline, city clerk; 76 met.; no gen.; pur. 661,200 kWh; rev. $35,687.[4]

NORTON Mun. Light Plant, 301 E. Washington, 67654, 913/877-3355, Dennis McMullen, city supt.; 1,850 met.; gen. 11,000 kW eng., 22,656,000 kWh; sales 18,476,912 kWh; rev. $1,374,153. (1912)[3]

OAKLEY, City of, 400 Price St., Box 116, 67748, 913/672-3401, Frank D. Salisbury, city supt.; 1,298 met.; gen. 8,220 kW, 7,805 kW dual-fuel, 415 kW oil, 6,103,000 kWh; pur. 11,095,956 kWh; rev. $1,088,542. (1910)*[3]

OBERLIN, City of, 107 W. Commercial, 67749, 913/475-2933, Phyll Cramer, city supt.; 1,450 met.; gen. 7,175 kW eng., 725,200 kWh; pur. 7,332,004 kWh; rev. $844,592. (early 1900s.)[3]

OSAGE CITY Mun. Light Plant, Fifth and Main Sts., 66523, 913/528-3851; Nina Gragg, city clk.; 1,447 met.; gen. 10,000 kW eng.[5]

OSAWATOMIE, City of, 5th & Main, 66064, 913/755-3605, Arthur Schufflebarger, city mgr.; 1,903 met.; gen. 400 kW oil (eng.), 7,350 kW dual-fuel eng.; pur. 18,705,560 kWh; rev. $1,589,937.*[5]

OSBORNE Mun. Light Plant, 133 W. Main St., 67473, 913/346-5611, Norman Christie, plant supt.; 1,112 met.; gen. 6,840 kW dual-fuel, 4,013,200 kWh; pur. 8,194,500 kWh.[5]

OTTAWA Power Plant, City Hall, Fourth and Walnut, 66067, 913/242-2190, Jack E. Davis, dir. utils.; 4,872 met.; gen. 35,050 kW, 4,000 kW oil & gas, (steam turbine), 19,250 kW dual-fuel (int. combus. eng.), 11,800 kW comb. cycle, 5,991,240 kWh; pur. 19,991,640 kWh; rev. $5,325,228. (1906)*[5]

OXFORD Mun. Elec. Dept., Box 337, 67119, 316/455-2223, Robert Spoon, supt.; 534 met.; no gen.; pur. 5,809,170 kWh; rev. $590,000.[5]

POMONA, City of, Box 67, 66076, 913/566-3522, Carl E. Waltman, util. supt.; 475 met.; no gen.; pur. 4,149,800 kWh; rev. $273,590. (1914)[3]

PRATT, City of, Elec. Dept., 321 W. 10th St., 67124, 316/672-2022, Arlyn Bradford, supt.; 3,860 met.; gen. 32,500 kW, 23,500 kW steam (gas), 9,000 kW steam (oil), 55,260,200 kWh; pur. 5,000,000 kWh; rev. $4,026,192. (1910)*[3]

PRESCOTT City Elec. Dept., 66767, 913/471-4521, Leonard Fyock, city clerk; 153 met.; no gen. (1921).[4]

RADIUM, City of, 67571, 316/982-4695, John Paden, city clerk; 34 met.; no gen.; pur. 47,843 kWh; rev. $30,141.[4]

ROBINSON, City of, 120 Parsons St., 66532, 913/544-6850, Loren Davenport, mayor; 152 met.; no gen.; pur. 1,396,200 kWh.[3]

RUSSELL, City of, Box 112, 67665, 913/483-6311, Earl Homewood, elec. util. dir.; 3,474 met.; gen. 5,000 kW oil-fired 13,143 kW dual-fuel eng., 69,803,700 kWh; pur. 20,000 kWh; rev. $4,198,963. (1910)[5]

SABETHA Mun. Light Dept., Box 187, 66534, Royal Kimmel, admin.; 913/284-2158.[5]

ST. FRANCIS Mun. Water & Light, Box 517, 67756, 913/332-3031, Bernard C. Roelfs, city supt.; 980 met.; gen. 5,000 kW dual-fuel, (eng.), 1,505,875 kWh; pur. 8,794,000 kWh; rev. $806,199. (1914)[5]

ST. JOHN, City of, Box 367, 67576, 316/549-3800, William D. Kirkpatrick, supv. of services; 1,085 met.; gen. 5,442 kW dual-fuel, 1,300,100 kWh; pur. 8,061,800 kWh; rev. $697,807. (1910)[4]

ST. MARY'S Mun. Light & Water Dept., 412 W. Bertrand Ave., Box 146, 66536, 913/437-2311, Henry Beseau, city mgr.; 844 met.; no gen.; pur. 11,166,900 kWh; rev. $834,375. (1908)[5]

SAVONBURG Electric, 66772, 316/754-3727, Don Ellison, utils. clerk; 69 met.; no gen.; pur. 405,000 kWh; rev. $21,145. (1902)[5]

SCRANTON, City of, Box 96, 66537, 913/793-2414, Bernard Lee, mayor; 292 met.; no gen.; pur. 2,717,400 kWh; rev. $171,690.[3]

SENECA City Elec., Box 40, 66538, 913/336-2747, Frank Rusche, supt.; 1,100 met.; no gen.; pur. 15,321,600 kWh; rev. $1,179,700. (1903)[5]

SEVERANCE, City of, 66081, 913/359-6574, Jean Crawley, city clerk; 57 met.; no gen.; pur. 372,800 kWh; rev. $24,862.[5]

SEWARD, City of, 67577, 316/458-4271, Marjorie Smith, city clerk; 51 met.; no gen.; pur. 420,360 kWh; rev. $37,381.[5]

SHARON SPRINGS, City of, Box 490, 67758, 913/852-4232, Norman L. (Pete) Sharp, city supt.; gen. 3,117 kW dual-fuel (eng.) (1918)*[5]

STAFFORD, City of, 112 W. Broadway, 67578, 316/234-5561, John C. Jones chief engr.; 908 met.; gen. 5,051 kW dual-fuel, 1,106,600 kWh; pur. 7,355,200 kWh; rev. $703,503.[5]

STERLING, City of, 114 North Broadway, Box 287, 67579, 316/278-3411, Randy Wetmore, city mgr.; 894 met.; gen. 5,840 kW eng., 13,076,440 kWh; pur. 9,124,800 kWh; rev. $733,485. (1916)[3]

STOCKTON Mun. Elec. Plant, Box 512, 67669, 913/425-6703, Rich Nienstedt, city mgr.; 981 met.; gen. 6,294 kW dual-fuel; 4,305,000 kWh; pur. 9,861,000 kWh; rev. $1,253,804. (1908)[5]

SUMMERFIELD, City of, 66541, Olynn Larmore, mayor; 913/244-6464, 155 met. no gen.; rev. $73,939.[5]

TORONTO Mun. Light Plant, Box 235, 66777, 316/637-2605, Clyde Boone, supt.; 280 met.; no gen.; pur. 1,828,000 kWh; rev. $157,330.[5]

TROY, City of, Box 506, 137 W. Walnut, 913/985-2265, 66087, Clarence Blake, mayor; 630 met.; no gen.; sales 4,143,360 kWh; rev. $442,424. (1911)[5]

UDALL Water & Light Dept., 110 S. Main, 67146, 316/782-3512, Corbett Wilson, supt.; 365 met.; no gen. (1939)[5]

VERMILLION, City of, 66544, 913/382-6224, Steven Evans, elec. supt.; 103 met.; no gen.[4]

WAMEGO Light & Power, Box 86, 66547, 913/456-9119, Mark F. Arbuthnot, city mgr.; 1,715 met.; gen. 8,310 kW dual-fuel eng., 3,400,843 kWh; pur. 20,699,600 kWh; rev. $1,538,718. (1908)*[5]

WASHINGTON Mun. Power Plant, Park Road, Box 296, 66968, 913/325-2231, Ivan W. Hinkle, power plant supvr.; 845 met. (1938)[5]

WATERVILLE Mun. Light Plant, 204 E. Front, 66548, 913/785-2367, A. C. Tryon, util. supt.; 394 met.; no gen.[5]

WATHENA Mun. Elec. Lighting System, 206 St. Joseph St., 66090, 913/989-4711, Mac McMullen, supt.; 600 met.;no gen., rev. $466,456.[4]

WEBBER, City of, 66970, 913/753-4401, Glen Bailey, mayor; 45 met; no gen.; pur. 327,504 kWh; rev. $21,788. (1937).[5]

WELLINGTON, Municipal, 317 S. Washington, 67152, 316/326-3871, Craig Hubler, city mgr.; 4,149 met.; gen. 27,500 kW gas, (steam turbine), 1,000 kW dual-fuel eng., 13,480,000 kWh; pur. 63,763,400 kWh; rev. $4,000,972. (1902)[5]

WINFIELD, City of, Box 646, 67156, 316/221-4891, John W. Elder, dir. of utils.; 7,443 met.; gen. 55,750 kW, 44,500 kW steam turbine, 11,250 gas (comb. turbine), 18,608,000 kWh; pur. 60,271,000 kWh; rev. $8,845,183. (1904)*[5]

KENTUCKY

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

BARBOURVILLE Water & Elec. Co., Box 651, 40906, 606/546-3187, Randell Young, mgr.; 3,309 met.; no gen.; pur. 55,476,000 kWh; rev. $2,751,361. (1938)[5]

BARDSTOWN, City of, Box 368, 40004, 502/348-5947, Larry Hamilton, city engr.; 2,580 met.; no gen.; pur. 67,004,200 kWh; rev. $3,579,595.*[4]

BARDWELL City Utils., Box 277, 42023, 502/628-3833, Donald M. Terry, mgr.; 558 met.; no gen.; sales 6,318,946 kWh; rev. $405,154. (1941)[5]

BENHAM Power Board, Box E, 40807, 606/848-5506, Jimmy Dale Hensley, chmn., power bd.; 337 met.[5]

BENTON Elec. System, Box 124, 42025, 502/527-3666 or 527-3651, Jim Owens, mgr.; 2,073 met.; no gen.; pur. 52,056,955 kWh; rev. $2,536,812. (TVA) (1945)*[5]

BEREA College Utils., CPO 2337, 40404, 606/986-4611, Donald Bewley, util. adm.; 3,466 met.; no gen.; pur. 81,382 kWh; rev. $3,887,057. (est. 1891)*[5]

BOWLING GREEN Mun. Utils., 801 Center St., 42101, 502/782-1200, Eddie Beck, gen. mgr.; 17,900 met.; pur. 558,724,181 kWh; rev. $25,396,105. (TVA) (1942)*[5]

CORBIN City Util. Comm., 901 S. Main St., 40701, 606/528-4026, George P. Rains, gen. mgr.; 3,758 met.; no gen.; pur. 59.8 million kWh rev. $3,081,960.[5]

FALMOUTH City Utils., 212 Main St. 41040, 606/654-6937, Pete Lawson, supt.; 1,200 met.; no gen.; pur. 14,611,200 kWh; rev. $814,569.[5]

FRANKFORT Elec. and Water Plant Bd., 315 W. Second St., 40601, 502/223-3401, Warner J. Caines, gen. mgr.; 16,745 met.; no gen.; pur. 437,241,600 kWh; rev. $19,326,767. (1943)*[5]

FRANKLIN Elec. Plant Bd., Box 349, 42134, 502/586-4441, Bill Austin, supt.; 3,850 met.; pur. 153,558,458 kWh; rev. $6,900,667 (TVA) (1943)*†[5]

FULTON Elec. System, 101 Nelson Tripp Place, 42041, 502/472-1362 Billy Moss, supt.; 1,870 met.; no gen.; pur. 45,575,315 kWh.; rev. $2,188,835. (1962)†[5]

GLASGOW Elec. Plant Bd., Box 666, 42141, 502/651-8341, William J. Ray, supt.; 5,676 met.; no gen.; pur. 239,101,487 kWh; rev. $9,168,312. (TVA) (1962)*†[5]

HENDERSON Mun. Power & Light, Box 8, 42420, 502/826-2726, Bill L. Perry, gen. mgr.; 10,077 met.; gen. 388,000 kW, 386,000 kW coal, 2,000 kW dual-fuel, 325,866,000 kWh; pur. 1,600,000 kWh; rev. $11,294,000. (1897)*[5]

HICKMAN Elec., Box 228, 42050, 502/236-3951, James Eakes, mgr.; 1,380 met.; pur. 19.4 million kWh; rev. $1,058,382. (TVA) (1970)*[4]

HOPKINSVILLE Elec. Plant Bd., Box 544, 42240, 502/887-4212, W. Howell Hightower supt.; 12,100 met.; no gen.; pur. 341,403,318 kWh; rev. $15,273,621. (TVA) (1942)*†[5]

MADISONVILLE Mun. Utils., 37 E. Center St., 42431, 502/821-4522, J. T. Tarpley, util. supt.; 7,735 met.; no gen.; pur. 188,598,300 kWh.; rev. $10,905,970. (TVA) (1922)[4]

MAYFIELD Elec. & Water Systems, 301 E. Broadway, 42066, 502/247-4661, James R. Gooch, gen. supt.; 5,651 met.; pur. 117,814,880 kWh; rev. $5,751,994. (TVA) (1942)*[5]

MONTICELLO, City of, Elec. Plant Bd., Box 657, 42633, 606/348-8102, James H. McCune, supt.; 2,928 met.; pur. 70,877,256 kWh; rev. $3,112,539. (TVA) (1960)*[5]

MURRAY Elec. System, Box 1095, 401 Olive St., 42071, 502/753-5312, Ron Underwood, supt.; 5,830 met.; pur. 196,249,433 kWh; rev. $8,807,157. (TVA) (1942)*†[5]

NICHOLASVILLE, City of, Elec. Dept., 517 N. Main St., Box 158, 40356, 606/885-9473, David House, mgr.; 4,000 met.; no gen.[5]

OLIVE HILL, City of, Mun. Power, Box 460, 41164, 606/286-2192 Alice Fielding, util. clerk; 1,284 met.; no gen.; rev. $706,000.[5]

OWENSBORO Mun. Utils., 115 E. 4th St., 42301, 502/926-3200, R.M. Carper, asst. gen. mgr.; 25,488 met.; gen. 415,000 kW coal, 1,718,133,000 kWh; sales 598,290,682 kWh; rev. $22,353,147. (1900)*[5]

PADUCAH Power System, 1400 Broadway, Box 180, 42001, 502/442-2711, Olin Bryant; gen. mgr.; 20,341 met.; pur. 479,920,499 kWh; rev. $23,786,457. (TVA) (1961)*†[5]

PARIS, City of, Combined Utils., 800 Pleasant St., 40361, 606/987-2630, R.D. Harris, supvr.; 2,243 met.; gen. 11,000 kW oil (eng.), 66,720 kWh; pur. 30,735,707 kWh; rev. $1,179,614. (1931)*[5]

PRINCETON Elec. Plant Bd., 304 Legion Dr., Box 608, 42445, 502/365-2031, Walter R. Smith, supt.; 3,796 met.; no gen.; sales 64,981,537 kWh; rev. $3,629,410. (TVA) (1961)*†[5]

PROVIDENCE Mun. Utils., North Willow St., Box 128, 42450, 502/667-5463, William C. Villines, mayor; 1,900 met.; no gen.; pur. 20,030,400 kWh; rev. $1,620,499. (1921)[5]

RUSSELLVILLE, Elec. Plant Bd., Box 418, 42276, 502/726-2466, George M. Wheeler, supt.; 3,778 met.; pur. 96,607,505 kWh; rev. $4,484,419. (TVA) (1942)*†[5]

VANCEBURG Elec. Light, Heat & Power System, 611 Front St., Box 117, 41179, 606/796-2641, Donald Burton, supt.; 2,292 met.; gen. 70,260 kW hydro, 254,915,000 kWh; no gen.; pur. 2,802,000 kWh; rev. $11,305,818. (1939)*[5]

WILLIAMSTOWN City Utils., 400 N. Main St., 41097, 606/824-3352, Jeffrey Clemons, asst. supt.; 1,297 met.; gen. 70,260 kW hydro, pur. 2,802,000 kWh; rev. $11,272,476 (1925)[4]

LOUISIANA

ABBEVILLE, City of, 304 Charity St., 70510, Larry J. Campisi, mayor; 5,138 met.; no gen.; pur. 93,924,040 kWh; rev. $6,101,186. (1898)[*5]

ALEXANDRIA Utilities Division, City Hall, Box 71, 71301, 318/473-1100, Champ Baker, dir. of utils.; 20,000 met.; gen. 175 kW gas steam, 424,487,000 kWh; pur. 91,306,000 kWh; rev. $26,107,000. (1907)[4]

BOYCE Mun. Water & Light Plant, 71409, 318/793-2175, Donald Guagnoli, supt.; 800 met.; no gen.[4]

ERATH, Town of, 115 W. Edwards, 70533, 318/937-8140; Melinda Simon; 781 met.; no gen.; pur. 13,922,000 kWh; rev. $569,472.[4]

GUEYDAN Mun. Plant, 600 Main St., 70542, 318/536-9415, J. Roy Guidry, supt.; 748 met.; no gen.; pur. 14,255,000 kWh; rev. $668,954.[4]

HOUMA, Terrebonne Parish Consolidated Government, Box 6097, 70361, 504/873-6448, Tom Bourg, 14,534 met.; gen. 98,000 kW, 85,000 kW gas, 13,000 kW dual-fuel, 108,706,997 kWh; pur. 139,665,599 kWh; rev. $9,342,639. (1898)[*5]

JONESVILLE Power & Light Dept., Box 428, 71343, 318/339-2051, Sims Nichols, supt.; 1,100 met.; no gen.; pur. 30 million kWh.[4]

KAPLAN Mun. Water & Light Plant, 511 Cushing Ave., 70548, 318/643-8628, Ravis Broussard, supt.[4]

LAFAYETTE, City of, Utils. System, Box 4017-C, 70502, 318/261-8800, T.J. Labbe, dir. of utils.; 35,288 met.; gen. 261,000 kW coal (steam turbine), 345,403 kW dual-fuel (steam turbine); 93,791,000 kWh; pur. 42,130,000 kWh; rev. $47,574,899. (1897)[*5]

MINDEN Light & Water Dept., Box 580, 71055, 318/377-2144, Gordon Bartage, supt.; 6,125 met.; gen. 36,000 kW, 25,000 kW steam, 11,000 kW dual-fuel, 74,421,000 kWh; pur. 35,916,000 kWh; rev. $6,498,932. (1920)[4]

MORGAN CITY Mun. Power Plant, Box 1218, 70380, 504/385-1770, Max Albritton, supt.; 6,800 met.; gen. 70,000 kW, 62,000 kW steam, 8,000 kW eng., 133,000.000 kWh; pur. 57,900,000 kWh; rev. $3,940,000. (1934)[4]

NATCHITOCHES, City of, Box 37, 71457, 318/352-2901, Robert J. Tynes, dir. utils.; 6,085 met.; gen. 53,200 kW, 43,500 kW steam, 9,700 kW eng.; pur. 62,586,000 kWh. (1901)[4]

NEW ROADS Mun. Light & Water Dept., 237 W. Main St., 70760, 504/638-8047, Roy E. Davis, supt.; 1,961 met.; gen. 9,500 kW dual-fuel eng.; 7,333,000 kWh; pur. 22,962,000 kWh. (1903)[4]

OPELOUSAS Elec. & Water System, Box 712, 70570, 318/942-6997, Tim Boyd, supt. (Leased July 1, 1981, for 10 years to Southwest Louisiana Electric Corp.) (1930)[4]

PLAQUEMINE City Light & Water Plant, City Hall, 70764, 504/687-4796, Max Albritton, util. supt.; 4,500 met.; gen. 44,000 kW gas, 3,000 kW oil-fired, 10 million kWh; pur. 65 million kWh; rev. $7,780,000. (1949)[*4]

RAYNE Mun. Power Plant, 201 3rd St., Box 69, 70578, 318/334-5870, Pierre Gary, supt.; 3,725 met.; no gen.; pur. 61,386,000 kWh; rev. $3,149,550. (1903)[4]

RUSTON, City of, Utils. System, Box 280, 71270, 318/255-1316, William Zack Spivey, supt. of utils.; 7,987 met.; gen. 81,001 kW gas (steam turbine), 83,132,940 kWh; pur. 8,210,000 kWh; rev. $14,747,739. (1920)[*5]

SABINE RIVER POWER AUTHORITY, Box 94245, Baton Rouge 70804-9245, 504/342-8043, David Smith, atty., 3 met. (All output sold to private power companies.)[4]

ST. MARTINVILLE, City of, 121 New Market St., 70582; Wilson Pose, supt.; 2,654 met.; pur. 39,010,000 kWh; rev. $1,928,125.[4]

VIDALIA, City of, Box 2010, 71373, 318/336-5206, Sam Randazzo, mayor,; 2,278 met.; no gen.; pur. 43,679,000 kWh; rev. $2,484,018. (1905)[*4]

VINTON, Town of, 1200 Horridge St., 70668, 318/589-7453, E. L. Bahnsen, supt. pub. works; 1,618 met.; no gen.; pur. 23,199,000 kWh; rev. $1,434,635. (1910)[*4]

WELSH, Town of, Box 786, 70591, 318/734-2231, Robert J. Louviere, supt. pub. works; 1,546 met.; no gen.; pur. 26,339,000 kWh; rev. $1,041,205. (1926)[*4]

WINNFIELD, City of, Utils. Dept., Box 312, 71483, 318/628-4452, J. D. Jones, elec. supt.; 3,053 met.; no gen.; pur. 59,892,000 kWh; rev. $1,526,043. (1945)[4]

MAINE

HOULTON Water Co., 21 Bangor St., Box 726, 04730, 207/532-2259 John L. Clark, gen. mgr.; 4,319 met.; no gen.; pur. 73,370,400 kWh; rev. $4,038,624. (1908)[*5]

KENNEBUNK Light & Power Dist., 36 Water St., 04043, 207/985-3311, Chester F. Oiler, gen. mgr.; 3,327 met.; gen. 600 kW hydro, 2,576,880 kWh; pur. 58,328,000 kWh; rev. $3,689,758. (1893)[5]

LEWISTON City of, Island Ave., 04240, 207/784-5753, Denis R. Caron, elec. supt.; (no residential meters; used for water pumping and street lighting—excess sold to Central Maine Power Co.); gen. 750 kW hydro, 5.5 million kWh. Municipal use only.[5]

LUBEC Water & Elec. Dist., Box 128, 04652, 207/733-5526, W. Milo Haskins, mgr/clerk/foreman; 1,154, met.; no gen.; pur. 8,901,600 kWh; rev. $700,163. (1951)[*5]

MADISON, Town of, Dept. of Elec. Works, 26 Weston Ave., Box 190, 04950, 207/696-4401, George D. Stoutamyer, supt.; 2,016 met.; gen. 375 kW hydro, 1,583,700 kWh; pur. 20,904,000 kWh; rev. $1,435,398. (1897)[5]

MATINICUS PLANTATION Elec. Co., Matinicus, 04851, 207/366-3629, Betsy Burr, clerk; 98 met.; gen. 165 kW oil-fired (diesel) eng., sales 149,318 kWh; rev. $58,826.(1976)[5]

VAN BUREN Light & Power Dist., 67 Main St., 04785, 207/868-3321, Louis Morneault, mgr.; 1,364 met.; no gen.; pur. 15,235,200 kWh; rev. $882,939. (1917)[5]

MARYLAND

BERLIN, Town of, 10 Williams St., 21811, 301/641-2770, Ronald L. Bireley, adm. dir.; 1,250 met.; gen. 3,592 kW, 4.8 million kWh; pur. 21.5; rev. $1,686,722. (1919)[*3]

EASTON Utils. Comm., 11 S. Harrison St. Box 1189, 21601, 301/822-6110, Roger C. Judd, gen. mgr.; 5,914 met.; gen. 29,350 kW oil (eng.), 17,860 kW dual-fuel, 600 kW (other), 69,337,500 kWh; pur. 81,319,700 kWh; rev. $10,844,591. (1914)[*†5]

HAGERSTOWN Mun. Elec. Light Plant, 600 S. Cannon Ave., 21740, 301/790-2600, Kenneth L. Alexander, actg. mgr.; 17,048 met.; gen. 30,000 kW (steam turbine), 1,000 kW oil (eng.), 71,000 kWh; pur. 244,643,000 kWh; rev. $11,365,446.[*5]

ST. MICHAELS, (leased to Delmarva Power & Light Co.)

THURMONT Mun. Light Co., 10 Frederick Rd., Box 385, 21788, 301/271-7313, Marion Wm. Rice, supt. pub. wks.; 1,495 met.; no gen.; pur. 38,598,188 kWh; rev. $1,789,022. (1910)[5]

WILLIAMSPORT Elec. Light Plant, Town Hall, 21795, 301/223-7711, D.K. Spickler, supt.; 800 met.; no gen.; pur. 14.3 million kWh; rev. $695,325.[5]

MASSACHUSETTS

ASHBURNHAM Mun. Light Plant, 86 Central St., 01430, 617/827-4423, Robert W. Gould, mgr.; 2,071 met.; no gen.; pur. 18,715,770 kWh; rev. $1,635,290. (1908)[5]

BELMONT Mun. Light Dept., 450 Concord Ave., 02178, 617/484-2780, Kenneth L. Conroy, mgr.; 10,452 met.; no gen.; pur. 97,680,960 kWh; rev. $8,165,146. (1898)[*5]

BOYLSTON, Town of, Sanatorium Rd., 01505, 617/869-2626, Edward H. Kimball, mgr.; 1,574 met.; no gen.; pur. 15,953,578 kWh; rev. $1,719,679. (1912)[*†5]

BRAINTREE Elec. Light Dept., 44 Allen St., 02184, 617/848-1130, Walter R. McGrath, asst. mgr.; 12,647 met.; gen. 87,000 kW oil (comb. cycle), 4,000 kW oil (eng.); 40,545,000 kWh; pur. 308 million kWh; rev. $27,550,309. (1892)[*†5]

CHESTER Mun. Light Dept., Middlefield St., Box 307, 01011, 413/354-7811, Robert Wyman, comm. chrm.; 416 met.; no gen.; pur. 5,834,560 kWh; rev. $325,699. (1926)[3]

CHICOPEE Mun. Light Plant, 725 Front St., 01020, 413/598-8311, Herve L. Plasse, mgr.; 22,464 met.; gen. 8,250 kW oil-fired; 2,059,350 kWh; pur. 320,389,447 kWh; rev. $22,623,780. (1894)[*5]

CONCORD Mun. Light Plant, 135 Keyes Rd., 01742, 617/369-2500, John R. O'Neil, supt.; 6,426 met.; no gen.; pur. 128,352,294 kWh; rev. $11,591,843. (1905)*†[5]

DANVERS Elec. Div., 2 Burroughs St., 01923, 617/774-0005, Wayne P. Marquis, mgr.; 9,869 met.; no gen.; pur. 266,083,210 kWh; rev. $19,902,697. (1889)*[5]

GEORGETOWN Mun. Light Dept., Moulton and W. Main Sts., 01833, 617/352-8611, James E. Hazen, mgr.; 2,647 met.; no gen.; pur. 28,085,962 kWh; rev. $2,115,185. (1912)*[3]

GROTON Elec. Light Dept., Station Ave., Box 679, 01450, 617/448-6655, Roger H. Beeltje, mgr.; 3,065 met.; no gen.; sales 30,444,591 kWh; rev. $2,871,204. (1909)*[5]

GROVELAND Mun. Light Dept., 23 School St., 01834, 617/372-1671, Gerald E. Hill, mgr.; 1,846 met.; no gen.; pur. 19,954,091 kWh; rev. $1,461,510. (1907)*[5]

HINGHAM Mun. Light Plant, 19 Elm St., 02043, 617/749-0134, Joseph Spadea Jr., mgr.; 7,316 met.; no gen.; pur. 127,650,320 kWh; rev. $10,064,698. (1894)*[5]

HOLDEN Mun. Light Dept.,94 Reservoir St., 01520, 617/829-4316, Neil E. Murray, mgr.; 5,308 met.; no gen.; sales 72,199,249 kWh; rev. $6,399,783. (1912)*[5]

HOLYOKE Gas & Elec. Dept., 70 Suffolk St., 01040, 413/536-9300, George F. Leary, mgr.; 17,787 met.; gen. 25,400 kW, 22,800 kW oil (steam turbine), 2,680 kW hydro, 15,352,000 kWh; pur. 239,727,000 kWh; rev. $20,332,728. (1902)*[5]

HUDSON Light and Power Dept., 49 Forest Ave., 01749, 617/568-8736, Horst Huehmer, mgr.; 8,813 met.; gen. 21,550 kW; 4,300 kW oil (eng.), 17,250 kW dual-fuel, 27,036,160 kWh; pur. 177,097,174 kWh; rev. $13,717,578. (1897)*†[5]

HULL Mun. Light, 15 Edgewater Rd., 02045, 617/925-0051, Roger Jackson, mgr.; 4,951 met.; no gen.; pur. 61,188,777 kWh; rev. $3,160,117. (1894)*[4]

IPSWICH, Elec. Dept., 222 High St., 01938, 617/356-4331, Donald R. Stone, mgr.; 5,110 met.; gen. 9,309 kW eng.; 4,965,040 kWh; pur. 66,808,600 kWh; rev. $4,997,284. (1904)*[3]

LITTLETON Elec. Light & Water Dept., Whitcomb Ave., 01460, 617/486-3104, Curtis J. Lanciani, gen. mgr.; 4,476 met.; pur. 81,196,706 kWh rev. $5,665,416. (1912)*†[4]

MANSFIELD Mun. Elec. Dept., 50 West St., 02048, 617/339-7011, John Larch, gen. mgr.; 5,358 met.; no gen.; pur. 163,613,138 kWh; rev. $11,890,207. (1903)*[5]

MARBLEHEAD Mun. Light Dept., 80 Commercial St., Box 369, 01945, 617/631-0240, Richard L. Bailey, gen. mgr.; 9,465 met.; gen. 6,000 kW (internal comb. eng.), 341,804 kWh; pur. 66,928,680 kWh; rev. $7,262,623. (1894)*[5]

MERRIMAC Mun. Light Dept., 2 School St., 01860, 617/346-8311, Raymond J. Bastarache, mgr.; 1,835 met.; no gen.; pur. 16,809,013 kWh; rev. $1,235,100. (1904)*[5]

MIDDLEBOROUGH Gas & Elec. Dept., Town Hall, Nickerson Ave., 02346, 617/947-1371, John Dunfey, mgr.; 8,630 met.; no gen.; pur. 70,326,535 kWh; rev. $10,189,152. (1893)*†[5]

MIDDLETON Mun. Light. Dept., S. Main St., Box 68, 01949, 617/774-4313, Mark Kelly, mgr.; 1,913 met.; no gen.; pur. 49.3 million kWh; rev. $3,686,247. (1914)*[5]

NORTH ATTLEBORO Elec. Dept., 43 S. Washington St., Box 790, 02761, 617/699-7542, David Sweetland, mgr.; 8,578 met.; no gen.; pur. 155,602,946 kWh; rev. $10,215,066. (1894)*†[4]

NORWOOD Mun. Light Dept., 206 Central St., 02062, 617/762-3203, Malcolm McDonald, supt.; 13,048 met.; no gen.; pur. 246,066,698 kWh; rev. $20,292,455. (1907)*[5]

PAXTON Mun. Light Dept., 578 Pleasant St., 01612, 617/756-9503, Harold L. Smith, mgr.; 1,338 met.; no gen.; pur. 21,327,007 kWh; rev. $1,472,482. (1913)*[5]

PEABODY Mun. Light Plant, 70 Endicott St., 01960, 617/531-5975, Bruce P. Patten, mgr.; 19,074 met.; gen. 32,400 kW, 21,250 kW oil (comb. turbine), 11,150 kW oil (eng.), 3,631,900 kWh; pur. 355,263,579 kWh; rev. $27,260,953. (1894)*[5]

PRINCETON Mun. Light Dept., 4 Town Hall,Box 247, 01541-0247, 617/464-2815, Richard F. Wheeler, mgr.; 1,182 met.; no gen.; pur. 9,669,267 kWh; rev. $824,773. (1913)*[5]

READING Town of, Mun. Light Dept., 25 Haven St., Box 150, 01867, 617/944-1340, Norbert D. Rhinerson, gen. mgr.; 20,819 met.; no gen.; pur. 484,101,231 kWh; rev. $35,487,075. (1894)*†[4]

ROWLEY Mun. Lighting Plant, 47 Summer St., 01969, 617/948-3992, G. Robert Merry, mgr.; 1,790 met.; no gen.; pur. 16,984,800 kWh; rev. $1,430,190. (1910)*†[5]

RUSSELL Mun. Light Dept., Main St., 01071, 413/862-4400, John Murphy, mgr.; 379 met.; no gen.; pur. 3,475,544 kWh; rev. $238,142. (1921)[5]

SHREWSBURY's Elec. Light Plant, 100 Maple Ave., 01545, 617/845-4881, James E. Baker, mgr.; 9,456 met.; gen. 13,750 kW eng.; 1,666,000 kWh; pur. 170,145,000 kWh; rev. $10,490,149. (1908)*†[4]

SOUTH HADLEY, Town of, Elec. Light Dept., 85 Main St., 01075, 413/536-1050, Wayne D. Doerpholz, mgr.; 6,380 met.; no gen.; pur. 102,892,100 kWh; rev. $6,464,658. (1914)*[3]

STERLING Mun. Light, 50 Main St.,01564, 617/422-6662, William H. Rugg, mgr.; 2,193 met.; no gen.; pur. 31,509,661 kWh; rev. $2,335,838. (1911)*[5]

TAUNTON Mun. Lighting Plant, 55 Weir St., 02780, 617/824-5844, Joseph Blain, mgr.; 22,983 met.; gen. 28,300 kW oil (steam turbine); 110,000 kW oil (comb. cycle); 165,579,000 kWh; pur. 303,172,548 kWh; rev. $36,655,049. (1897)*†[4]

TEMPLETON Mun. Lighting Plant, 2 School St., Baldwinville, 01436, 617/939-5323, Gerald P. Skelton, mgr.; 2,476 met.; no gen.; pur. 64,639,454 kWh; rev. $5,432,241. (1906)*[5]

WAKEFIELD Mun. Light Dept., 9 Albion St., 01880, 617/245-0027, William J. Wallace, mgr.; 10,097 met.; no. gen.; pur. 15,432,603 kWh; rev. $11,162,965. (1894)*†[5]

WELLESLEY, Town of, 455 Worcester St., Box 364, Wellesley Hills, 02181, 617/235-7600, Maurice R. Berdan, mgr.; 9,075 met.; no gen.; pur. 171,945,637 kWh; rev. $15,651,868. (1892)*[5]

WEST BOYLSTON Mun. Lighting Plant, 4 Crescent St., 01583, 617/835-3681, Charles H. Coughlin, mgr.; 2,563 met.; no gen.; pur. 52,395,193 kWh; rev. $3,674,507. (1910)*†[5]

WESTFIELD Gas & Elec. Light Dept., 100 Elm St., 01085, 413/568-9171, Daniel Golubek, gen. mgr.; 14,322 met.; no gen.; sales 252,761,271 kWh; rev. $20,861,846. (1899)*[5]

MICHIGAN

BARAGA, Village of, Box 290, 49908, 906/353-6237, J. H. Ross, supt.; 702 met.; no gen.; pur. 5.8 million kWh.[5]

BAY CITY Elec. Light & Power, 900 S. Water, 48708, 517/894-8345, Richard G. Harris, dir., elec. utils; 14,026 met.; gen. 5,750 kW dual-fuel, 7,251,000 kWh; pur. 152,441,447 kWh; rev. $10,791,801. (1886)*[5]

CHARLEVOIX City of, 210 State St., 49720, 616/547-3270, Edward Whitley, elec. supt.; 3,000 met.; no gen.; pur. 36,141,067 kWh; rev. $2,602,114.(1900)[5]

CHELSEA Elec. & Water, 104 E. Middle St., 48118, 313/475-1771, Jerry Satterthwaite, 1,452 met.; no gen.; pur. 24,455,918 kWh; rev. $1,452,000. (1898)[5]

CLINTON Bd. of Pub. Utils., 119 E. Michigan Ave., 49236, 517/456-4207, Richard W. Sharpe, village mgr., 1,100 met.; gen. 2,310 kW eng.;2,000 kW dual-fuel, pur. 20,300,000 kWh; rev. $1,540,000. (1893)[4]

COLDWATER Bd. of Pub. Utils., 28 W. Chicago St., 49036, 517/279-9531, James R. Endicott, dir.; 5,309 met.; gen. 25,375 kW, 11,125 kW coal (steam turbine), 4,750 kW oil-eng., 9,500 kW dual-fuel (eng.), 24,265,000 kWh; sales 120,760,484 kWh; rev. $8,130,720. (1891)*[5]

CROSWELL Light & Power Dept., 120 E. Sanborn Ave., 48422, 313/679-2120, Parry G. Baer, mgr.; 1,033 met.; gen. 1,300 kW dual-fuel (oil-fired eng.), 12 mWh; pur. 21,218 mWh; rev. $1,571,000. (1897)[5]

CRYSTAL FALLS Elec. Dept., 401 Superior Ave., 49920, 906/875-6650, Walter E. Hagglund, city mgr.; 1,470 met.; gen. 1,050 kW hydro; 6,012,400 kWh; pur 9,207,600 kWh; rev. $906,384 (1891)*[5]

DAGGETT Elec. Dept., 49821, 906/753-6319, Paul Hansen, maint.; 135 met.; no gen.; pur. 1,273,400 kWh; rev. $71,196. (1912)[5]

DETROIT Pub. Lighting Dept., 9449 Grinnell Ave., 48213-1176, 313/267-7228, William F. Gaughan, actg. supt.; 1,469 met.; gen. 180,000 kW, 90,000 kW oil (steam turbine), 30,000 kW oil (combus. turbine), 60,000 kW gas (steam turbine); 211,908,000 kWh; pur. 521,904,000 kWh; rev. $62,619,248. (1893)*[5]

DOWAGIAC Dept. of Pub. Services, 203 Chestnut St., 49047, 616/782-8200, Larry J. Rohacs, dir.; 2,436 met.; gen. 3,875 kW, 2,739 kW oil, 1,136 kW dual-fuel (eng.), 1,585,000 kWh; pur. 44,465,000 kWh; rev. $2,170,493. (1936)*[4]

EATON RAPIDS, City of, 200 S. Main St., 48827, 517/663-8118, Dennis O. Craun, city mgr.; 1,803 met.; no gen.; pur. 27,276,800 kWh; rev. $1,602,837. (1898)[4]

ESCANABA Mun. Elec. Util., 120 N. Eighth St., 49829, 906/786-0061, Edwin A. Korpi, supt.; 7,407 met.; gen. 25,000 kW steam; pur. 87.8 million kWh; rev. $6,713,521. (1894)*[5]

GLADSTONE, City of,1100 Delta Ave., Box 32, 49837, 906/428-3737, Howard W. Keeton, city mgr.; 2,597 met.; no gen.; pur. 21,510,500 kWh; rev. $1,558,100. (1928)[5]

GRAND HAVEN Bd. of Light & Power, 650 Harbor Ave., 49417, 616/846-6250, Ed Hughes, gen. mgr.; 9,054 met.; gen. 110,330 kW, 87,900 kW coal (steam turbine), 12,715 kW oil, 2,715 kW gas, 7,000 kW dual-fuel (eng.), 372,240,800 kWh; pur. 32,618,200 kWh; rev. $14,605,029. (1896)*[5]

HARBOR SPRINGS, City of, 170 Zoll St., 49740, 616/526-2122, Ron Howell, city mgr., Douglas V. Porter, elec. dist. supt.; 2,429 met.; no gen.; pur. 19,492,638 kWh; rev. $1,527,472. (1898)[5]

HART Hydro Elec., 407 State St., 49420, 616/873-2488, Barry Vincent, supt.; 1,300 met.; gen. 5,109 kW, 604 kW oil-fired eng., 4,185 kW dual-fuel eng., 320 kW hydro, 2,906,000 kWh; pur 15,353,600 kWh; rev. $1,142,700. (1927)[5]

HILLSDALE Bd. of Pub. Util., City Hall, 49242, 517/437-3688, Ronald D. Neer, dir.; 5,054 met.; gen. 21,000 kW, 2,500 kW oil (combus. eng.), 18,500 kW dual-fuel (eng.); sales 105,730,436 rev. $7,556,514. (1893)*[5]

HOLLAND Bd. of Pub. Works, 270 River Ave., 49423, 616/394-1320, Tim Morawski, gen. mgr.; 15,475 met.; gen. 82,050 kW, 62,050 kW coal (steam turbine), 20,000 kW oil (combus. turbine), 282,201,640 kWh; pur. 39,320,642 kWh; rev. $18,297,182. (1893)*†[5]

L'ANSE, Village of, 101 Main St., 49946, 906/524-7393, Bruce G. Carlson, supt.; 1,500 met.; no gen.; pur. 10,862,000 kWh; rev. $724,000. (1908)[5]

LANSING Bd. of Water & Light, Box 13007, 48901, 517/487-4826, Joseph Pandy Jr.; dir. and gen. mgr.; 84,102 met.; gen. 628,650 kW, 627,500 kW coal (steam turbine), 1,150 kW hydro, 2,117,746,999 kWh; pur. 5,175,000 kWh; rev. $98.037,176. (1892)*†[5]

LOWELL Mun. Light & Power Plant, 127 N. Broadway, 49331, 616/897-8402, Herbert Haines, supt.; 1,700 met.; pur. 24.8 million kWh.[3]

MARQUETTE, City of, Bd. of Light & Power, 2200 Wright St., 49855, 906/228-6900, David E. Hickey; 13,682 met.; gen. 119,138 kW, 77,358 kW coal (steam), 23,700 kW oil (gas turbine), 14,130 kW oil (eng.), 3,950 kW hydro, 290,230,960 kWh; pur. 10,267,000 kWh; rev. $19,315,895. (1889)*[5]

MARSHALL City Water & Elec. Works, 109 E. Michigan Ave., 49068, 616/781-3967, Richard C. Ashdown, admr.; 4,066 met.; gen. 12,040 kW, 1,000 kW oil (eng.), 10,721 kW dual-fuel (eng.), 319 kW hydro, 2,600,102 kWh; sales 63,056,126 kWh; rev. $5,347,064. (1892)[5]

NEGAUNEE City of, City Hall, 49866, 906/475-7220, T.R. McNabb, city mgr., 2,280 met.; no gen.; pur. 19,965,000 kWh; rev. $1,199,000.[5]

NEWBERRY Water & Light, 307 E. McMillan, 49868, 906/293-8531, Merdith (Moe) DeVerna, supt.; 1,506 met.; gen. 4,540 kW oil-fired (eng.), 358,205 kWh; pur. 17,156,230 kWh; rev. $881,000. (1925)[5]

NILES Utils. Dept., 602 E. Main St., Box 217, 49120, 616/683-4700, S. A. Brett, mgr.; 6,697 met.; gen. 460 kW hydro, 3,297,900 kWh; pur. 102,348,000 kWh; rev. $4,898,617. (1894)*[5]

NORWAY City of L&P, 915 Brown St., 49870, 906/563-9641, J. E. Stanchina, supt.; 2,896 met.; gen. 3,500 kW hydro, 26,064,500 kWh; pur. 2,708,300 kWh; rev. $940,592. (1904)[5]

PAW PAW, Village of, 110 E. Berrien St., 49079, 616/657-3169, Harry L. Bush, supt. of pub. works; 1,640 met.; no gen.; pur. 27,050,400 kWh; rev. $1,628,192. (1898)*†[5]

PETOSKEY, City of, 200 Division St., 49770, 616/347-8362, George Korthauer, city mgr.; 3,401 met.; pur. 60,100,000 kWh; rev. $3,633,407. (1898)*[4]

PORTLAND, City of, Mun. Elec. Dept., 723 East Grd. River, 48875, 517/647-6912, 647-7531, Nyle Blaschka, supt. ops.; 1,845 met.; gen. 1,120 kW oil (eng.), 375 kW hydro, 2,337,125 kWh; pur. 18,254,430 kWh; rev. $1,176,672. (1896)[4]

ST. LOUIS Mun. Elec. Util., 412 N. Mill St., 48880, 517/681-3351, Ron Gibson, supt.; 1,736 met.; gen. 2,155 kW oil, 1,360 kW gas (eng.), 425 kW hydro, 2,983,145 kWh; pur. 14,400,000 kWh; rev. $925,011. (1899)[5]

SEBEWAING Light & Water Dept., 110 W. Main, 48759, 517/883-2700, Arthur G. Reinhold, supt.; 1,100 met.; gen. 4,000 kW oil-fired eng., 6,000 kW dual-fuel eng.; 3,000,000 kWh; pur. 25,000,000 kWh; rev. $2,100,000. (1911)*[5]

SOUTH HAVEN Bd.of Pub. Utils., Box 507, 49090, 616/637-5211, Paul L. Preston Jr., city mgr.; 5,596 met.; no gen.; pur. 98,337,600 kWh; rev. $4,269,669. (1902)*[5]

STEPHENSON City of, 49887, 906/753-2225, James Beaudoin, supt.; 462 met.; no gen.; sales 5,258,000 kWh; rev. $314,049. (1920)[5]

STURGIS, City of, Box 280, 49091, 616/651-2321, John E. Brand, city mgr.; 5,778 met.; gen. 5,350 kW oil, 6,000 kW dual-fuel (eng.), 2,600 kW hydro, 17,972,960 kWh; pur. 130,835,540 kWh; rev. $7,088,283. (1910)*[5]

TRAVERSE CITY Light & Power Dept., 400 Boardman Ave., Governmental Center, Box 592, 49685-0592, 616/941-2309, Thomas Richards, exec. dir.; 6,768 met.; gen. 27,000 kW coal (steam turbine), 7,500 kW gas (combus. turbine), 500 kW hydro, 143,883,264 kWh; pur. 80,597,485 kWh; rev. $8,747,073. (1912)*†[3]

UNION CITY Elec. Dept., 208 N. Broadway, 49094, 517/741-8591, James E. Spencer, supt.; 1,300 met.; gen. 1,500 kW eng.[5]

WAKEFIELD Light & Power Dept., City Hall, 1211 Hancock St., 49968, 906/229-5231, Rudy Mikulich, city mgr.; 1,112 met.; no gen.; pur. 10,100,000 kWh; rev. $404,491. (1920)*[4]

WYANDOTTE City of, Dept. of Mun. Service, 3005 Biddle Ave., 48192, 313/282-7100, Dale O. Simmons, gen. mgr.; 13,988 met.; gen. 60,500 kW, 44,000 kW coal, 16,500 kW gas combus. turbine; 186,292,000 kWh; pur. 8,303,599 kWh; rev. $13,044,048. (1894)*[5]

ZEELAND Bd. of Pub. Works, 350 E. Washington Ave., 49464, 616/772-6212, Glenn Veldheer, actg. mgr.; 2,523 met.; gen. 22,000 kW dual-fuel eng., 80,808,412 kWh; pur. 777,600 kWh; rev. $500,024. (1935)*†[5]

MINNESOTA

ADA Mun. Util., Drawer 32, 56510, 218/784-2711, Tom Sweetlad, pub. wks. dir., 1,350 met.; no gen.; pur. 24,452,293 kWh; rev. $605,832.[5]

ADRIAN Pub. Util., Box 187, 56110, 507/483-2680, Terrence Miller, supt. of utils.; 635 met.; gen. 1,106 kW oil-fired eng. (standby); pur. 10,292,174 kWh; rev. $383,237.(1929)*†[5]

AITKIN Pub. Util. Comm., 120 First St., N.W., 56431, 218/927-3222, Wilfrid Fossum, mgr.; 1,450 met.; no. gen.; pur. 24,100,000 kWh; rev. $1,374,000. (1892)*[5]

ALEXANDRIA Bd. of Pub. Works, 316 Fillmore St., 56308, 612/763-6501, Earl LaMaack, gen. mgr.; 6,424 met.; gen. 9,145 kW dual-fuel, (eng.) (standby), 35,330 kWh; pur. 93,140,356 kWh; rev. $5,918,170. (1889)*†[5]

ALPHA, 56111, 507/847-3557, Jeanne Getler, 120 met.; no gen.; pur. 57,601 kW, rev. $92,623. (1915)[5]

ALVARADO Mun. Elec. Dept., 56710, 218/965-4911, Herb Monk, supt.; 190 met.; pur. 2,504,720 kWh; rev. $52,000.[4]

ANOKA, City of, Elec. Dept., 2015 First Ave. N.,Harrison St., 55303, 612/421-6630, Lewis Bradford, dir. of util.; 8,928 met.; no gen.; pur. 150,192,000 kWh; rev. $7,094,036. (1901)*[5]

ARLINGTON, City of, Elec. Dept., 312 W. Alden St., 55307, 612/964-2378, Russell Good, elec. supt.; 861 met.; no gen.; pur. 12,569,600 kWh; rev. $675,984.[5]

AUSTIN Utils., Box 368, N.E., 55912, 507/433-8886, M.L. Enfield, secy.; 11,216 met.; gen. 29,340 kW coal, 27,500 kW gas, 6,000 kW gas (turb.), 92,602,000 kWh; sales 284,250,918 kWh; rev. $16,388,472. (1900)*[5]

BAGLEY Pub. Utils. Comm., Box M, 56621, 218/694-2300, Bernie Stavig, supt.; 530 met.; no gen. (1907)[5]

BARNESVILLE, City of, Elec. Utils., Box 295, 56514, 218/354-2292, H. Gilbertson, supt.; 1,164 met.; no gen.; pur. 15,985,535 kWh; rev. $588,669. (about 1898)*†[3]

BAUDETTE, City of, Box 548, 56623, 218/634-2432, George Taylor Jr., supt.; 662 met.; gen. 1,936 kW int. combus. eng., (standby), 5,558 kWh; pur. 10,706,195 kWh; rev. $534,586.[5]

BENSON, City of, Water & Light, 1411 Pacific Ave., 56215, 612/843-4775 or 3707, James L. Ehret, util. supt.; 1,986 met.; gen. 2,900 oil (eng.), 39,280 kWh; pur. 24,257,766 kWh; rev. $696,420. (1902)*†[4]

BIGELOW, City of, 56117, 507/683-2682, Paul Marco, city clk.; 148 met.[5]

BIWABIK Water, Light, Power & Bldg. Comm., Box A, 55708, 218/865-6740, Richard Harju, supt.; 616 met.; no gen.; pur. 6,140,808 kWh; rev. $434,056. (1904)[4]

BLOOMING PRAIRIE Pub. Utils., Box 55, 146 Third Ave. SE., 55917, 507/583-6683, Richard D. Kittelson, gen. mgr.; 909 met.; gen. 3,598 kW oil-fired eng., 37,760 kWh; sales 12,011,810 kWh; rev. $657,426. (1931)*[5]

BLUE EARTH Light & Water Dept., 118 E. Sixth St., 56013, 507/526-2191, Jeffrey Jansen, supt.; 2,083 met.; gen. 7,000 kW, 2,000 kW dual-fuel (steam turbine), 5,000 kW dual-fuel (int. combus. eng.), 1,478,000 kWh, pur. 34,758,425 kWh; rev. $2,475,350. (1895)*†[5]

BRAINERD Water & Light Dept., 501 Laurel St., Box 373, 56041, 218/829-8726, Walter Sjolund, supt., 6,149 met.; no gen.; pur. 105,734,000 kWh; rev. $6,314,812. (1892)[5]

BRECKENRIDGE Pub. Utils., 420 Nebraska Ave., 56520, 218/643-4681, Ken Twito, supt., 1,720 met.; no gen.; pur. 33,453,550 kWh; rev. $1,196,000. (1907)*[5]

BREWSTER, City of, 906 3rd Ave., 56119, 507/842-5936, Henry Weaver, city clerk-treas.; 283 met.; no gen.; pur. 1,355,198 kWh; rev. $212,498. (1914)[5]

BROWNTON Mun. Elec. Light Dept., 528 2nd St. N., 55312, 612/328-5318, Carl Wachter, mayor; 340 met.; no gen.; pur. 4,311,200 kWh; rev. $203,898. (1921)[5]

BUFFALO Mun. Util.,212 Central Ave., 55313, 612/682-1181, Merton Auger, city adm.; 2,082 met.; no gen.; pur. 35,624,000 kWh; rev. $1,841,035. (1921)*[5]

BUHL Water & Light Dept., Box 704, 55713, 218/258-3217, Mike Miklovich, supt.; 500 met.[5]

CALEDONIA Mun. Light Dept., 231 E. Main St., 55921, 507/724-3450, R. Schmitz, supt.; 1,285 met.; no gen.; pur. 14,579,200 kWh; rev. $798,835. (1903)[4]

CEYLON Water & Light Dept., Office of the clerk, 56121, 507/632-4653, William F. Ditz, city clerk/treasurer; 272 met.; no gen.; pur. 2,917,800 kWh; rev. $139,814.[5]

CHASKA, City of, 205 E. Fourth St., 55318, 612/448-2425, Steve J. Wilker, supt. of utils.; 3,074 met.; no gen.; pur. 67,922,400 kWh; rev. $3,272,897. (approx. 1905)*[5]

DELANO Mun. Utils., 11 W. Bridge Ave., 55328, 612/972-3211, Milton Voltin, supt.; 1,200 met.; gen. 2,276 kW oil, eng., 2,505 kW dual-fuel eng.;130,300 kWh; pur. 17,250,240 kWh; rev. $860,928. (1932)*[4]

DETROIT LAKES Pub. Util. Dept., 1025 Roosevelt Ave., Box 647, 56501, 218/847-7609, Greg Sherman, supt.; 5,087 met.; no gen.; pur. 90,973,612 kWh; rev. $4,242,449. (1902)*†[5]

DUNNELL, Village of, Box 94, 56127, 507/695-2942, Pat Rauhausen, clerk; 120 met.; no. gen.; pur. 1,082,160 kWh; rev. $58,500. (1920s)[5]

EAST GRAND FORKS Water & Light Dept., Box 322, 56721, 218/773-1163, Jerry J. Keller, actg. supt.; 3,700 met.; no gen.; pur. 96,918,062 kWh; rev. $3,583,048. (1906)[5]

EITZEN, City of, Light & Power, Box 110, 55931, 507/495-3259, J. Anthony Stokman, clerk-treas.; 131 met.; no gen.; pur. 1,852,200 kWh; rev. $124,159. (est. 1946)[5]

ELBOW LAKE Mun. Elec., Box 1079, 56531, 218/685-4483, Gerald Walwick, comm. pres.; 857 met.; no gen.; pur. 14,334,915 kWh; rev. $540,105. (1965)*†[4]

ELK RIVER Mun. Utils., 322 King Ave., 55330, 612/441-2020, Edson C. Stansfield, utils. supt.; 2,578 met.; gen. 9,100 kW, 1,100 kW oil, 8,000 kW dual-fuel (all standby), 116,300 kWh; pur. 46,052,000 kWh; rev. $2,641,098. (1945)[5]

ELY Water & Light Dept., 209 E. Chapman St., 55731, 218/365-3225, Albin Mavetz, supt.; 2,046 met.; no gen.; pur 2,601,970 kWh; rev. $1,581,504.(1890)[5]

FAIRFAX Mun. Power Plant, 112 S.E. First St., 55332, 507/426-7255, Russell N. Mortenson, supt.; 713 met.; gen. 1,750 kW oil (eng., standby), 36,530 kWh; pur. 11,998,088 kWh; rev. $415,013.*[5]

FAIRMONT Pub. Utils. Comm., 117 E. First St., 56031, 507/238-9461, Paul T. Lee, util. dir., 5,815 met.; gen. 36,000 kW, 24,000 kW dual-fuel (steam), 12,000 kW dual-fuel (eng.), 20,451,000 kWh; pur. 115,840,032 kWh; rev. $8,249,264. (1902)*[5]

FOSSTON Mun. Utils., 220 E. First St., 56542, 218/435-1737, Russell W. Earls, supt. pub. wks.; 864 met.; gen. 940 kW oil-fired eng.(standby),, pur. 25,789,921 kWh; rev. $954,742. (1941)[5]

GILBERT Water & Light, Box 368, 55741, 218/741-9617, Chester James, elec. supt.; 932 met.; no gen.; pur. 9,478,758 kWh; (1908)[5]

GLENCOE Light and Power Comm., Mun. Elec. Plant, 305 11th St. East, 55336, 612/864-5184, Joe Adrian, mgr.; 2,049 met.; gen. 21,156 kW, 1,586 kW oil, 19,750 kW dual-fuel (eng.), 987,000 kWh; pur. 50,072,100 kWh; rev. $2,879,984. (1938)*[5]

GRAND MARAIS, City of, Pub. Util. Comm., 15 N. Broadway, Box 83, 55604, 218/387-1848, Glenn R. Bergstrom, mgr.; 942 met.; gen. 4,019 kW eng., 66,400 kWh; pur. 12,247,000 kWh; rev. $796,599. (1949)*[5]

GRAND RAPIDS Pub. Utils. Comm., 420 Pokegama Ave., N., Box 658, 55744, 218/327-2805, Raymond Litchke, gen. mgr.; 4,886 met.; no gen.; pur. 99,860,550 kWh; rev. $5,549,691. (1910)[5]

GRANITE FALLS Mun. Power, 885 Prentice, 56241, 612/564-3011, Richard A. Voller, city mgr.; 1,550 met.; gen. 500 kW hydro, 1,500,000 kWh; pur. 21,000,000 kWh; rev. $1,000,000. (1890)†[5]

GROVE CITY Pub. Utils., Box 84, 56243, 612/587-2322 David Martin; 304 met.; no gen.; pur. 5,413,800 kWh.[4]

HALSTAD Municipal, 56548, 218/456-2128, Daniel R. Duklet, supt. of utils.; gen. 1,060 kW oil-fired eng., 4,350 kWh; pur. 8,679,764 kWh; rev. $336,485. (1939)[4]

HARMONY Water & Light, Box 488, 55939, 507/886-8122, Norman Johnson, supt., pb. wks.; 533 met.; no gen.; pur. 6,528,000 kWh.[3]

HAWLEY, Pub. Utils. 56549, 218/483-3331, L. L. Quam, city clerk; 775 met.; no gen. pur. 8,529,185 kWh; rev. $459,856. (1909)[5]

HENNING Power & Light, 56551, 218/583-2402, Filmore Trites, mayor; 464 met.; no gen.; pur. 6,178,454 kWh; rev. $303,263. (1956)*†[4]

HIBBING Pub. Utils. Comm., 6th Ave. E. & 19th St., Box 249, 55746, 218/263-7515, Raymond P. Richards, gen. mgr.; 7,253 met.; gen. 31,000 kW coal (steam), 48,234,000 kWh; pur. 70,907,000 kWh; rev. $6,956,621. (1895)*[5]

HUTCHINSON Utils. Comm., 225 Michigan St., 55350, 612/587-4746, Rufus Alexander, gen. mgr.; 4,679 met.; gen. 25,000 kW comb. turbine, 14,200 kW comb. cycle, 146,466 kW gas (comb. cycle), 19,486,000 kWh; pur. 143,753,000 kWh; rev. $8,790,536. (1936)*†[4]

JACKSON Mun. Power Plant, 504 Second St., 56143, 507/847-4410, William R. Holmes, supt.; 1,819 met.; pur. 32.2 million kWh; rev. $1,238,000. (1913)*†[5]

JANESVILLE Mun. Utils., 219 N. Main, 56048, 507/234-5112, Steve Mielke, city admin.; 910 met.; gen. 3,176 kW dual-fuel eng., 544,800 kWh; pur. 7,300,556 kWh; rev. $518,000. (1939)*[5]

KANDIYOHI, City of, 56251, 612/382-6110, Daryl Deisting, 400 met.; no gen.; pur. 3,818,600 kWh; rev. $135,797.[5]

KASOTA Elec. Dept., Box 218, 56050, 507/931-3290, J. Neubert, supt.; 280 met.; no gen.; pur. 2,852,400 kWh; rev. $168,000.[5]

KASSON Municipal, 122 W. Main St., 55944, 507/634-7071, Keith Houston, util. supt.; 1,303 met., no gen.; pur. 11,570,400 kWh; rev. $584,647. (1937)[3]

KEEWATIN Pub. Utils., Box 190, 55753, 218/778-6544, Edward Boben, supvr.; 650 met.; no gen.; pur. 5,744,409 kWh; rev. $388,745. (1927)[5]

KENYON Mun. Utility, 713 Second St., 55946, 507/789-6573, Lorry Wille, supt.; 750 met.; gen. 1,919 kW oil (int. combus. eng.)., pur. 10 million; rev. $554,000. (1932)[5]

LAKE CITY Water & Light, 205 West Center St., 55041, 612/345-5383, Kenneth E. DeVillers, util. mgr.; 2,476 met.; no gen.; pur. 70,080,000 kWh; rev. $3,053,462. (1907)*[5]

LAKE CRYSTAL Pub. Util., 100 E. Robinson St., 56055, 507/726-2538, Alden Sutherland, mgr.; 925 met.; gen. 4,195 kW dual-fuel, eng., 191,070 kWh; pur. 11,564,280 kWh; rev. $689,289. (1937)[5]

LAKEFIELD Pub. Utils., 56150, 507/662-6363, Richard Thompson, supt.; 938 met.; no gen. pur. 11,885,296 kWh; rev. $525,732. (1900)*†[5]

LAKE PARK Pub. Utils., Box 265, 56554, 218/238-5532, George Mattson, supt.; 302 met.; no gen.; pur. 2.7 million kWh; rev. $76,000.*†[4]

LANESBORO Pub. Util., Box 333, 55949, 507/467-3722, Dale Olson; 512 met., gen. 1,360 kW oil-fired eng.; 160 kW hydro; 35,000 kWh; pur. 4,769,966 kWh; rev. $286,197. (1902)[5]

LE SUEUR Mun. Utils., 228 N. Main, 56058, 612/665-3338, Mervin Hentges, supt.; 1,785 met.; no gen. pur. 53,407,200 kWh; rev. $2,622,488. (1934)[5]

LITCHFIELD Pub. Utils., 421 W. Third St., Box 521, 55355, 612/693-3277, Rueben L. Nathe, ofc. mgr.; 2,762 met.; gen. 8,120 kW, 142,000 kWh; pur. 65,563,774 kWh; rev. $2,474,423. (1889)*†[5]

LUVERNE, City of. Mun. Utils., 203 E. Main, 56156, 507/283-2388, Mary Guhin, city admin.; 2,107 met.; gen. 7,422 kW, 3,000 kW oil (steam), 4,422 kW gas eng.; 43,510 kWh; pur. 43,127,089 kWh; rev. $1,677,989. (1893)*†[5]

MABEL, City of, 55954, 507/493-5299, Jimmy Narum, city clerk; 450 met.; no gen.; pur. 210,000 kWh; rev. $230,000. (1905)[5]

MADELIA Mun. Utils., 24 Abbott Ave. S.W., 56062, 507/642-8803, Steve Moses, supt.; 1,151 met.; gen. 8,296 dual-fuel kW eng., 70,200 kWh; pur. 24,676,000 kWh; rev. $1,147,874. (1939)*[5]

MADISON Mun. Utils., 109 7th Ave., 56256, 612/598-3239, Harold Hodge, supt.; 1,144 met.; no gen.; pur. 19,198,933 kWh; rev. $640,419. (1898)*†[3]

MARSHALL Mun. Utils., 113 S. Fourth St., 56258, 507/532-4451, F. Richard Voller, gen. mgr.; 4,776 met.; gen. 20,000 kW oil comb. turbine, 3,500 kW oil, eng.(standby); pur. 199,580,650 kWh rev. $7,908,464. (1894)*[5]

MELROSE Pub. Utils., 225 First St. N., 56352, 612/256-4278, Donald Salzman, supt. pub. works; 1,214 met.; gen. 2,111 kW oil-fired, 6,000 kW dual-fuel, 304,000 kWh; pur. 47,989,522 kWh; rev. $1,583,810. (1905)*†[5]

MOORHEAD Pub. Service Dept., Box 779, 56560, 218/299-5400, Tom Heller, actg. supt.; 11,528 met.; gen. 33,000 kW, 23,000 kW coal, 10,000 kW oil, (comb-turb.); 18,000 kWh; pur. 222,646,440 kWh; rev. $9,957,512. (1895)*†[5]

MOOSE LAKE Water & Light Comm., 401 4th St., 55767, 218/485-4100, Warren G. Weske, supt.; 788 met.; gen. 3,850 kW dual-fuel eng., 20,500 kWh; pur. 12,681,432 kWh; rev. $835,935. (1933)[5]

MORA Mun. Util., 117 S.E. Railroad Ave., 55051, 612/679-1451, Robert A. Filson, city admin.; 1,522 met.; gen. 13,911 kW oil (eng.), 120,400 kWh; pur. 45,800,620 kWh; rev. $2,680,792. (1934)*[5]

MOUNTAIN IRON, City of, Box 505, 55768, 218/735-8267, Richard Anderson, supt. pub. wks., 826 met.; no gen.; pur. 11 million kWh; rev. $750,000. (1919)*[5]

MOUNTAIN LAKE Mun. Utils., 925 Second Ave., 56159, 507/427-2633, Norman Fast, elec. supt.; 1,100 met.; gen. 5,442 kW eng., 10,000 kWh; pur.1,800,000 kWh; rev. $1,296,530. (1935)[4]

NASHWAUK Pub. Utils. Dept., 301 Central Ave., 55769, 218/885-1210, Peter Stupar, supvr.; 550 met.; no gen.; pur. 6,070,938 kWh; rev. $357,532. (1910)[5]

NEWFOLDEN Elec. Dept., 56738, 218/874-6551, Marlin Lee, supt.; 213 met.; no gen.; rev. $60,000.[5]

NEW PRAGUE Utils., 300 E. Main St., 56071, 612/758-4447, Donald E. Meyer, supt.; 1,403 met.; gen. 18,200 kW, 16,650 kW dual-fuel eng., 1,000 kW oil-fired eng., 550 kW gas-fired; 778,000 kWh; pur. 41,224,607 kWh; rev. $2,384,537. (1928)*[3]

NEW ULM Pub. Utils., 310 First North St., 56073, 507/354-4182, Dave Peterson, supt.; 6,016 met.; gen. 45,000 kW, 21,000 kW coal, 24,000 kW gas, comb. turbine; 67,116,110 kWh; pur. 67,185,200 kWh; rev. $7,564,345. (1902)*†[5]

NIELSVILLE, City of, Utils., 56568, Darlene Ruthenberg, city clerk; 62 met.; no gen.; pur. 1,103.184 kWh; rev. $29,491.[5]

NORTH BRANCH Water & Light Comm., 712 Maple St., Box 176, 55056, 612/674-7100, Bruce Walters, supt.; 801 met.; gen. 2,365 kW dual-fuel eng.; 7,200 kWh; pur. 11,108,811 kWh; rev. $765,821. (1941)*[5]

NORTH ST. PAUL, City of, 2526 E. 7th Ave., 55109, 612/770-4488, Ron Schuler, dir., elec. utils.; 5,217 met.; no gen.; pur. 55,580,000 kWh; rev. $3,029,927. (1898)*[4]

OLIVIA, City of, 1009 W. Lincoln Ave., 56277, 612/523-2361, Robert E. Ewer, supt. of pub. works; 1,214 met.; no gen.; pur. 24,628,900 kWh; rev. $720,394.[5]

ORTONVILLE Light Dept., 315 Madison Ave., 56278, 612/839-3428, Arthur Hamann, supt., light dept., 1,375 met.; no gen.; pur. 26,723,305 kWh; rev. $1,052,671. (1905)*†[5]

OWATONNA Pub. Utils., 208 S. Walnut Ave., Box 800, 55060, 507/451-2480, David M. Martin, gen. mgr.; 7,979 met.; gen. 49,000 kW, 30,000 kW gas (steam), 19,000 kW gas comb. turbine; 18,057,400 kWh; pur. 139,700,400 kWh; rev. $7,299,890 (1924)*†[4]

PETERSON, City of, Elec. System, Box 94, 55962, 507/875-2510, Richard Lee, mayor; 115 met.; no gen.; pur. 1,330,400 kWh; rev. $80,402.[5]

PIERZ Elec. Dept., 56364, 612/468-6405, Harold M. Mayor, elec. comm., 523 met.; no gen.[5]

PRESTON Pub. Utils., 109 St. Paul 2 S.W., 55965, 507/765-4541, Chester Rindels, supvr., city serv.; 800 met.; gen. 4,478 kW oil/dual-fuel (combus. turbine), 36,680 kWh; pur. 10 million kWh; rev. $628,502. (1896)*[5]

PRINCETON Pub. Utils. Comm., Box 218, 55371, 612/389-2252, Harold R. Steppuhn, gen. mgr.; 1,638 met.; gen. 2,700 kW oil, 4,950 kW dual-fuel (eng.), 98,800 kWh; sales 27,558,300 kWh; rev. $1,872,603. (1938)*†[5]

PROCTOR Pub. Utils. Comm., 210 Third St., 55810, 218/624-4055, Joseph Knowlton, plant supt.; 1,311 met.; no gen.; pur. 14,645,100 kWh; rev. $965,300. (1941)[5]

RANDALL Mun. Util., City Hall, 56475, 612/749-2159, Larry Sharon, clerk; 249 met.; no gen.[5]

REDWOOD FALLS Pub. Utils Comm., 333 S. Washington, Box 48, 56283, 507/637-5789, Curtis G. Weber, supt.; 2,407 met.; gen. 8,000 kW, 7,800 kW dual-fuel, 200 kW hydro; 2,827,455 kWh; pur. 38,480,000 kWh; rev. $ 1,962,708. (1946)*[5]

ROCHESTER Pub. Utils., 506 First Ave., NE., 55903, 507/285-8943, R. John Miner, gen. mgr.; 28,175 met.; gen. 136,400 kW, 98,400 kW coal, 35,000 kW oil (comb. turbine), 3,000 kW hydro, 268,666,600 kWh; sales 649,583,340 kWh; rev. $37,263,038. (1892)*†[5]

ROSEAU Mun. Utils., 100 Second Ave., Box 307, 56751, 218/463-1542, Dale Drown, supt.; 1,400 met.[5]

ROUND LAKE City of, Box 72, 56167, 507/945-8127, Gary Jurgensen, supt.; 25045 met.[5]

RUSHFORD, City of, 405 South Elm St., 55971, 507/864-2444, Robert A. Museus, elec. util. supt.; 720 met.; no gen.; pur. 10,260,366 kWh; rev. $600,000.(1901)[5]

RUSHMORE City of,Box 192, 56168, 507/478-4338, Alpharetta Palaschak, city clerk; 225 met.; no gen.; pur. 98,339 kWh; rev. $118,970.[4]

ST. CHARLES Light & Water Dept., 1242 Whitewater Ave., 55972, 507/932-3020, Gus Ihrke, pub. wks. supt.; 1,094 met.; no gen.; pur. 14,276,829 kWh; rev. $724,268.[3]

ST. JAMES Public Utils., 124 Armstrong Blvd. S., 56081, 507/375-3241, Craig Christiansen, supt. of pub. wks.; 2,090 met.; no gen.; pur. 37,141,566 kWh; rev. $1,389,445.*†[5]

ST. PETER Mun. Utils., 227 S. Front St., 56082, 507/931-3540, Mel Johnson, community serv. dir., 3,011 met.; no gen.; pur. 56,571,200 kWh; rev. $2,533,365. (1891)*[5]

SARGEANT Elec. Light Dept., Box 21, 55973, 507/584-6886, Mrs. Herbert Martin, clerk; 30 met.; no gen.; sales 660,600 kWh,rev. $18,774.[4]

SAUK CENTRE Water, Light & Power Comm., 101 S. Main St., 56378, 612/352-6538, DeWayne Rubedor, supt.; 1,733 met.; no gen.; pur. 31,540,878 kWh; rev. $1,010,457. (1916)*†[5]

SHAKOPEE Pub. Utils. Comm., 1030 E. Fourth Ave., 55379, 612/445-1988, Louis Van Hout, util. mgr.; 4,268 met.; no gen.; pur. 76,734,400 kWh; rev. $3,770,175. (1900)*[5]

SHELLY Mun. Light Dept., Box 126, 56581, 218/886-8355, Dean Denison, mayor; 140 met.; no gen.; pur. 2,380,689 kWh; rev. $98,787.[5]

SLEEPY EYE Pub. Utils., 130 Second Ave., N.W., 56085, 507/794-4371, D. H. Logue, supt.; 1,953 met.; gen. 5,372 kW, 3,250 kW coal (steam), 2,122 kW eng.; 3,709,500 kWh; pur. 24,861,893 kWh; rev. $1,408,257. (1895)*[5]

SPRINGFIELD Pub. Utils. Comm., 14 N. Marshall Ave., 56087, 507/723-5290, Menno Mennenga, supt.; 1,187 met.; gen. 3,000 kW coal, 4,000 kW gas (steam turbine), 711,900 kWh; pur. 18,532,602 kWh; rev. $986,411. (1894)[5]

SPRING GROVE Mun. Util., 118 1st Ave. N.W.,55974, 507/498-5221, Robert Hillman, city clerk, 632 met.;

no gen.; pur. 10,669,200 kWh; rev. $516,107. [5]

SPRING VALLEY Pub. Utils., 104 S. Section Ave., 55975, 507/346-7622, Robert G. Carson, supt.; 1,396 met.; gen. 8,376 kW, 6,400 kW dual-fuel, 1,976 kW oil-fired eng., 70,600 kWh; pur. 14,671,161 kWh; rev. $1,012,683. (1935)*[5]

STAPLES Mun. Water & Light Dept., 611 Iowa Ave., 56479, 218/894-2550, N.G. Schroeder, city adm.; 1,473 met.; no gen.; pur. 18,235,000 kWh; rev. $1,024,980.*†[3]

STEPHEN City of, Box 28, 56757, 218/478-3614, Leonard Bazey, supt.; 390 met.; no gen.; pur. 7,796,666 kWh; rev. $282,197. (1910)[3]

THIEF RIVER FALLS Mun. Utils., Box 528, 56701, 218/681-5816, John T. Anderson, supt. of utils.; 3,847 met.; gen. 5,991 kW, 5,441 kW oil-fired eng., (standby), 550 kW hydro, 3,829,700 kWh; pur. 67,986,216 kWh; rev. $3,187,137. (1901)*[5]

TRUMAN Pub. Utils., 56088, 507/776-6501, Robert H. Grefe, supt.; 810 met.; gen. 4,177 kW dual-fuel, 258,600 kWh; pur. 9,528,500 kWh; rev. $578,537. (1938)*†[5]

TWO HARBORS Mun. Water & Light, 610 Second Ave., 55616, 218/834-4387, John D. Olsvik, city clerk; 1,708 met.; no gen.; sales 16,409,000 kWh; rev. $1,156,468. (1909)[4]

TYLER Mun. Light & Power, 230 N. Tyler, 56178, 507/247-5556, Henry M. Jacobsen, mayor; 680 met.; gen. 1,300 kW int. combus. eng. (standby); pur. 11,953,435 kWh; rev. $490,204.*[5]

VIRGINIA Dept. of Pub. Utils., 618 S. 2nd St., Box 1048, 55792, 218/741-0740, Jerry Shrawder, mgt. consultant; 5,850 met.; gen. 35,000 kW coal, 73,059,100 kWh; pur. 19,684,000 kWh; rev. $5,116,160. (1913)*[5]

WADENA Light & Water Dept., 104 N. Jefferson, 56482, 218/631-1813, Russell F. Berg, supt.; 2,342 met.; no gen.; pur. 44,372,607 kWh; rev. $1,506,282. (1897)*†[4]

WARREN, City of, 126 W. Johnson Ave., 56762, 218/745-5343, Ralph H. Plencner, supt.; 862 met.; gen. 2,161 kW int. combus. eng., 900 kWh; pur. 6,257,000 kWh; rev. $746,400. (1902)[5]

WARROAD Mun. Utils., Box 50, 56763, 218/386-1873, Darrel Anderson, supt.; 636 met.; no gen.; pur. 20,091,600 kWh; rev. $881,500.[5]

WASECA Water & Light Dept., 508 S. State St., 56093, 507/835-3890, Tim Madigan, city mgr.; 3,552 met.; no gen.; pur. 50,475,600 kWh; rev. $2,348,106. (1894)*[5]

WELLS Pub. Utils., 101 First St., S.E., 56097, 507/553-3119; Ray Wigern, supt.; 1,436 met.; no gen.; sales 18,079,313 kWh; rev. $1,268,638. (1894)*[5]

WESTBROOK Mun. Light & Power, Box 296, 56183, 507/274-6712, Dennis Jutting, supt.; 841 met.; no gen.; pur. 8,246,840 kWh; rev. $357,279. (1938)*†[5]

WHALAN Electric Dept., 55986, 507/467-2173, Adeline Larson, town clk.; 54 met.; no gen.; pur. 321,800 kWh; rev. $15,880. [5]

WILLMAR Mun. Utils., Box 937, 56201, 612/235-4422, C. Ted Nelson, gen. mgr.; 7,304 met.; gen. 29,350 kW coal (steam), 84,425,110 kWh; pur. 68,338,425 kWh; rev. $6,924,226. (1895)*[5]

WINDOM Mun. Utils., 444-9th St., 56101, 507/831-1539, Dennis Purrington, elec. supt.; 2,092 met.; gen. 3,000 kW oil, comb. turbine, 5,000 kWh; pur. 38,438,700 kWh; rev. $1,182,506. (1895)*[5]

WINTHROP, City of, 305 N. Main St., Box Y, 55396, 507/647-5306, Del Thompson, elec. supt.; 738 met.; no gen.; pur. 13,156,000 kWh; rev. $619,770. (1925)[5]

WORTHINGTON Pub. Utils., 303 Ninth St., Box 279, 56187, 507/376-3161, Donald E. Habicht, city admin.; 4,623 met.; no gen.; pur. 50,689,000 kWh; rev. $5,096,079. (1895)*†[5]

MISSISSIPPI

(Systems designated "TVA" are distributors of Tennessee Valley Authority power and purchase all of their power from TVA.)

ABERDEEN Pub. Utils., Box 817, 39730, 601/369-4724, Doyle Herndon, gen. mgr.; 3,314 met.; pur. 127.6 million kWh; rev. $5,461,534. (TVA) (1939)[4]

AMORY Elec. & Water Dept., Box 266, 38821, 601/256-5633, Billie B. Wright, mgr.; 3,752 met.; pur. 97.8 million kWh; rev. $4,493,485. (TVA) (1934)[4]

CANTON Mun. Utils., Box 114, 39046, 601/859-2921, John M. Wallace, gen. mgr.; 4,830 met.; no gen.; pur. 84,598,000 kWh; rev. $4,602,000. (1896)*[5]

CLARKSDALE Water & Light Dept., Box 940, 38614, 601/627-4761, Lewis L. Wilkins, supt.; 8,211 met.; gen. 62,550 kW, 24,500 kW gas (steam turbine), 12,550 kW gas (combus. turbine), 25,550 kW comb. cycle, 18,528,712 kWh; sales 140,343,045 kWh; rev. $8,844,548. (1900)*[5]

COLLINS, City of, Box 400, 39428, 601/765-4491, Jimmy Don Harvey, 1,064 met.; no gen.; pur. 17,964,657; rev. $1,264,357.[5]

COLUMBUS, City of, Light & Water Dept., Box 949, 39703, 601/328-7192, Reynolds R. Ridgley, gen. mgr.; 11,623 met.; no gen.; pur. 392,169,700 kWh; rev. $17,796,660. (TVA) (1939)*†[5]

DURANT Mun. Utils., 106 West Mulberry, 39063, 601/653-3221, C.N. Blanton Jr., mayor; 1,157 met.; no gen.; sales 15,590,745 kWh; rev. $1,046,487. (1930)[5]

FAYETTE Light & Water Plant, 36069. (Leased to Mississippi Power & Light Co.)

GREENWOOD Utils., 101 Wright Place, Box 866, 38930, 601/453-7234, C. M. Mathews, mgr.; 9,974 met.; gen. 40,150 kW coal, 13,500 kW gas (steam turbine), 11,250 kW gas (combus. turbine), 116,088,948 kWh; pur. 97.3 million kWh; rev. $11,862,907. (1904)*[3]

HOLLY SPRINGS, City of, Util. Dept., Box 520, 38635, 601/252-4411, I. W. Carpenter, mgr.; 8,296 met.; pur. 162.7 million kWh; rev. $7,603,700. (TVA) (1890)[4]

ITTA BENA, Light & Water, Box 563, 38941, 601/254-7231, James Peeples, supvr.; 1,150 met.; no gen.; pur. 572,773 kWh; rev. $716,000.*[4]

KOSCIUSKO Water & Light Plant, 204 West Jefferson St., 39090, 601/289-1141, Charles E. Burchfield, supt.; 3,152 met.; no gen.; pur. 49,736,375 kWh; rev. $2,905,892. (1919)*[5]

LELAND, City of, Drawer 271, 38756, 601/686-4136, Mickey Fratesi, city clerk, 2,510 met.; no gen.; pur. 28,272,000 kWh; rev. $1,827,949.*[4]

LOUISVILLE Utilities, South Columbus Ave., Box 71, 39339, 601/773-7147, Tommy Lee Kirkpatrick, mgr.; 3,317 met.; pur. 124,530,006 kWh; rev. $5,768,101. (TVA) (1939)[4]

MACON, City of, Elec. Dept., Box 146, 39341, 601/726-5251, H. L. Ledbetter, supt.; 1,295 met.; pur. 21,427,532 kWh; rev. $1,193,316. (TVA) (1927)[5]

NEW ALBANY Elec. Dept., Box 236, 38652, Harold G. Smith, mgr.; 7,996 met.; no gen.; pur. 179,707,812 kWh; rev. $8,599,101. (TVA) (1934)*[5]

OKOLONA City of, Elec. Dept., Box 111, 38860, 601/447-5482, Frank Westbrook, mgr.; 4,208 met.; pur. 66,913,920 kWh; rev. $3,157,699. (TVA) (1935)[4]

OXFORD, City of, Elec. Dept., Box 827, 38655, 601/236-1310, Tom H. Landrum, supt.; 4,621 met.; no gen.; pur. 115,931,072 kWh; rev. $5,607,620. (TVA) (1896)[5]

PHILADELPHIA Utils., Box 88, 39350, 601/656-1121, John Burt, mgr.; 3,421 met.; pur. 92.7 million kWh; rev. $4,335,979. (TVA) (1939)*[4]

STARKVILLE Elec. Dept., Box 927, 39759, 601/323-3133, Clay R. Campbell, gen. mgr.; 6,988 met.; no gen.; pur. 231.9 million kWh; rev. $10,304,488. (TVA) (1939)[4]

TUPELO, Water & Light Dept., Box 588, 38802, 601/842-6460, Charles F. Hutchison, mgr.; 11,858 met.; no gen.; pur. 397.3 million kWh; rev. $17,475,993. (TVA) (1900)[4]

WATER VALLEY Elec. Dept., Box 231, 38965, 601/473-3326, Vernon Chambers, supt.; 1,904 met.; pur. 63.2 million kWh; rev. $2,834,745. (TVA) (1938)[4]

WEST POINT Elec. System, 331 Washington St., Box 1117, 39773, 601/494-1432, Dewel Brasher, supt.; 3,759 met.; pur. 121.5 million kWh; rev. $5,647,992. (TVA) (1958)[4]

WOODVILLE Light, Water & Gas Plant, 39669. (Leased to Mississippi Power & Light Co.)

YAZOO CITY Pub. Service Comm., Box 660, 39194, 601/746-3741, Robert D. Priest, 5,394 met.; gen. 29,000 kW, 16,500 kW gas (steam turb.), 12,500 gas (comb. turbine), 1,779,000 kWh; pur. 78,076,000 kWh; rev. $5,120,148. (1903)*[4]

MISSOURI

ALBANY Light & Water, 106 E. Clay, 64402, 816/726-3510, Gene Wilson, city admin.; 1,362 met.; gen. 4,165 kW oil-fired eng.; 325,000 kWh; pur. 14,613,775 kWh; rev. $613,530.[5]

BETHANY Mun. Water & Light, Box 344, 64424, 816/425-8816, Larry D. Sanders, supt. light & power; 1,743 met.; gen. 3,850 kW oil-fired (eng.), 4,900 kW gas-fired (eng.), 641,980 kWh; pur. 17,544,082 kWh; rev. $1,429,000.[4]

BUTLER Mun., 101 N. Lyons, 64730, 816/679-4013, Don Edmonds, supt., 2,216 met.; gen. 6,125 kW oil (comb. turbine), 371,998 kWh; pur. 20,000,000 kWh; rev. $1,599,787. (1880)[3]

CABOOL City of, 618 Main St., 65689, 417/962-3136, Noah January, city admin.; 957 met.; no gen.; pur 25,600,000 kWh; rev. $1,365,131. (1948)[5]

CALIFORNIA, City of, Bd. of Pub. Wks., 103 E. Versailles, 65018, 314/796-4591, Bill J. Gilbert, supt.; 1,783 met.; no gen.; pur. 22,688,104 kWh; rev. $1,378,012. (1936)[5]

CAMERON, City of, 205-09 N. Main, 64429, 816/632-2177, Luther Zimmerman, 2,209 met.; gen. 2,338 kW oil, eng.; 305,000 kWh; pur. 32,595,600 kWh; rev. $1,810,282. (1924)[4]

CAMPBELL Mun. Light Dept., 202 W. Grand, 63933, 314/246-2541, Randall Baker, city clk.; 1,100 met.; gas and oil gen.[4]

CARROLLTON Mun. Utils, 707 S. Main St., Box 460, 64633, 816/542-0360, L.L. Anderson, supt.; 2,460 met.; gen. 22,619 kW dual-fuel (eng.), 24,112,045 kWh, pur. 27,829,750 kWh; rev. $2,811,722. (1941)*[5]

CARTHAGE, Water & Electric Plant, 149 E. Third, Box 611, 64836, 417/358-5904, David R. Clark, gen. supt.; 5,908 met.; gen. 39,160 kW dual-fuel, 2,227,900 kWh; pur. 141,448,885 kWh; rev. $7,858,834. (1898)*[5]

CENTRALIA, City of, Light Dept., 114 S. Rollins St., 65240, 314/682-2139, Lynn P. Behrns, city admn.; 1,636 met.; no gen.; sales 17,793,300 kWh; rev. $812,806. (1916)[5]

CHILLICOTHE Mun. Utils, Box 807, 64601, 816/646-1664, Ray Blakely, gen. mgr.; 4,631 met.; gen. 11,000 kW coal (steam turbine), 33,582,000 kWh; pur. 56,315,000 kWh; rev. $4,711,236. (1911)*[4]

CLARKSVILLE Utils., Box 528, 63336, 314/242-3553. Kenneth Shuford, supt.; 356 met.; no gen. (1939)[5]

COLUMBIA, City of, Water and Light, 701 E. Broadway, 65201, 314/874-7317, Richard E. Malon, dir.; 22,237 met.; gen. 38,500 kW coal, 35,000 kW gas, 12,500 kW gas (combus. turbine), 95,974,370 kWh; pur. 441,371,000 kWh; rev. $33,492,187. (1904)*†[5]

CRANE Municipal Utils., 120 N. Commerce, Box 17, 65633, 417/723-5990, Jack Swearingen, city supt.; 605 met.; no gen.; pur. 9,743,800 kWh; rev. $540,278. (1963)[4]

CUBA Mun. Utils, 65453, 314/885-7958, Paul D. Dickens, supt.; 1,200 met.; no gen. [5]

EL DORADO SPRINGS, City of, 127 W. Spring, 64744, 417/872-2521, Roy E. Swan, city utils. dir.; 1,946 met.; no gen.; pur. 32,825,600 kWh; rev. $1,498,317. (1939)*[5]

FARMINGTON Light & Power, 110 W. Columbia, 63640, 314/756-2620, Ronald W. Sheppard, supt.; 3,869 met.; no gen.; pur. 64,420,078 kWh; rev. $3,004,181. (1900)*[5]

FAYETTE, City of, 117 S. Main St., 65248, 816/248-3316, John Bradshaw, city admin., 1,171 met.; gen. 12,950 kW dual-fuel eng, 2,350,000 kWh; pur. 24,000,000, kWh; rev. $1,275,000. (1932)[4]

FREDERICKTOWN, City of, Light & Power, 120 W. Main, 63645, 314/783-5284, Owen J. Slinkard, mgr.; 2,150 met.; no gen.; sales 28,666,637 kWh; rev. $1,025,259. (1948)*[5]

FULTON Bd. of Pub. Works, Box 142, 65251, 314/642-6655, Byron Dysart, supt.; 4,235 met.; gen. 32,550 kW, 18,000 kW gas turbine, 14,550 kW dual-fuel, 50.4 million kWh; pur. 82,404,000 kWh; rev. $4,825,950. (1895)*[5]

GALLATIN Light & Water Works, 112 East Grand. 64640, 816/663-3331, C.R. Bashford, supt. utils.; 1,066 met.; gen. 6,675 kW oil (eng.), 1,412,000 kWh; pur. 2,922,000 kWh; rev. $913,584. (1932)[5]

GALT, City of, Mun. Utils., Box 86, 64641, 816/673-6514, Ronnie Herring, mayor; 185 met.; no gen.; sales 2,283,139 kWh; rev. $134,000.[5]

GILMAN CITY Power & Light Plant, 64642, 816/876-5351 or 5230, Larry Hyre, supt.; 200 met. [4]

HANNIBAL Bd. of Pub. Wks., City Hall, 324 Broadway, 63401, 314/221-8050, Owen Ransdell, gen. supt.; 8,472 met.; no gen.; pur. 155,412,000 kWh; rev. $6,290,997. (1886)*[5]

HARRISONVILLE Mun. Utils., Box 367, 64701, 816/884-3285, Damon Bartles, dir., pub. wrks. (1929) [5]

HERMANN Mun. Utils., 312 Schiller St., 65041, 314/486-5953, Linford H. Thornton, supt.; 1,373 met.; no gen.; pur. 30,459,000 kWh; rev. $1,296,717. (1953)*[3]

HIGGINSVILLE Mun. Utils., Box 110, 64037, 816/584-2106, Russell Ellis, supt. of utilities; 2,181 met.; gen. 4,940 kW, 2,530 kW oil-fired eng., 2,410 kW dual-fuel eng., 1,003,100 kWh; pur. 35,776,840 kWh; rev. $2,144,000. (1904)*†[5]

HOUSTON, City of, 111 W. Main St., 65483, 417/967-3653, Gerald Elmore, city admin.; 1,103 met.; no gen.; pur. 25,401,600 kWh.; rev. $1,312,292. (1951).[5]

HUNNEWELL Elec. Dept., 63443, 314/983-2439, Devan Porter, mayor; 170 met.; no gen. (1915)[5]

INDEPENDENCE, City of, Power & Light, 21500 E. Truman Road, 64050, 816/796-4400, P.F. Banks, elec. util. dir.; 45,006 met.; gen. 161,000 kW coal (steam turbine), 75,000 kW oil (combus. turbine), 105,000 kW gas (combus. turbine), 578,273,900 kWh; pur. 125,786,000 kWh; rev. $33,769,977. (1901)*[4]

JACKSON Power & Light, 225 S. High St., 63755, 314/243-3568, Carl L. Talley, city adm.; 4,000 met.; gen. 1,700 kW oil-fired eng., 21,000 kW dual-fuel eng., 4,053,909 kWh; pur. 69,100,800 kWh; rev. $3,550,000. (1905)*[5]

KAHOKA, City of, 275 N. Washington, 63445, 816/727-2512, Delbert Gilbert, supt.; 1,043 met.; gen. 784 kW oil (comb. eng.), 3,650 kW dual-fuel (eng.), 1,674,000 kWh; pur. 11,887,200 kWh; rev. $755,000. [5]

KENNETT Bd. of Pub. Wks., Box 40, 63857, 314/888-2835, Larry V. Jones, supt. of utils.; 4,871 met.; gen. 3,056 kW oil (eng.), 28,850 kW dual-fuel, 1,687,600 kWh; pur. 106,167,000 kWh; rev. $3,560,000. (1942)*[4]

KIRKWOOD Electric, 212 S. Taylor Ave., 63122, 314/822-5847, Bob R. Carter, dir.; 9,483 met.; no gen.; pur. 152,361,000 kWh; rev. $7,514,000. (1900)[5]

LAMAR Light and Water Co., 1100 Broadway, 64759, 417/682-5554, J.A. Roberts, city admin.; 2,169 met.; no gen.; pur. 46,387,927 kWh; rev. $1,252,768. (1900)*[5]

LA PLATA Mun. Power and Light, 101 S. Gex, 63549, 816/332-7212, Stephen Love, supt.; 795 met. (1938)[5]

LEBANON, City of, 400 S. Madison, Box 111, 65536, 417/532-2156, Bill Lawson, supt.; 4,238 met.; no gen.; pur. 107,212,000 kWh; rev. $4,167,681. [4]

LIBERAL Mun. Light & Water, Box 67, 64762, 417/843-6025, Neil M. Mooney, supt.; 350 met.; no gen.; pur. 4,381,600 kWh; rev. $272,966. (1935)[5]

LOCKWOOD, City of, 107 E. 8th, 65682, 417/232-4221, G.L. Probert, mayor; 556 met.; no gen.; pur. 8,027,200 kWh; rev. $390,827.[4]

MACON Mun. Utils., 121-123 W. Bourke St., Box 569, 63552, 816/385-3173, Paul E. Jensen, gen. supt.; 2,877 met.; gen. 11,700 kW oil-fired, 2,333,520 kWh; pur. 59,903,200 kWh; rev. $3,148,905. (1890)*†[5]

MALDEN Bd. of Pub. Wks., 111 E. LacLede, 63863, 314/276-2238, Joe Russell, gen. mgr.; 2,609 met.; gen. 13,800 kW dual-fuel, 2,700,000 kWh; sales 48,363,195 kWh; rev. $2,843,914. (1896)*[5]

MANSFIELD City of, 65704, 417/924-3719, Kenneth Cowell, city supvr.; 619 met.; no gen. (1963)[5]

MARCELINE Mun. Utils., 116 N. Kansas Ave., 64658, 816/376-3528, Lanny Holt, supt.; 700 met.; no gen.[5]

MARSHALL Mun. Util. 74 E. Arrow St., 65340, 816/886-6966, Thomas F. Hill, gen. mgr.; 5,559 met.; gen. 22,000 kW coal, 4,000 kW gas (steam turbine), 15,000 oil (combus. turbine), 82,109,700 kWh; pur. 55,104,000 kWh; rev. $8,780,221. (1920)*[5]

MEMPHIS, City of, 135 S. Main, 63555, 816/465-2003, Paul C. Luscombe, supt.; 1,322 met.; gen. 6,476 kW, 3,071 kW oil, 3,405 kW dual-fuel (eng.), 814,400 kWh; pur. 14,353,000 kWh; rev. $947,000. (1919)*[5]

MILAN City of, 201 N. Market, Box 247, 63556, 816/265-4411. Edward Sayre, supt.; 965 met.[5]

MINDENMINES Mun. Light Dept., Box 115, 64769, 417/842-3216, Freddie Lee, supt.; 175 met.; no gen.; pur. 1,304,900 kWh; rev. $77,798. (1922)[5]

MONETT City of, 217 5th St., 65708, 417/235-3300, Harlan C. Barekman, supt.; 3,210 met.; no gen.; pur.

93,460,800 kWh; rev. $4,560,581. (1893)*[5]

MONROE CITY, City of, 300 N. Main, 63456, 314/735-4441, Kenneth Buckman, elec. supt., 1,275 met.; gen. 8,880 kW dual-fuel, 2,110,550 kWh; pur. 27,746,400 kWh; rev. $1,325,031. (1902)[4]

MOUNT VERNON City of, 319 E. Dallas, Box 70, 65712,417/466-2122; Jack Swearingen, supt.; 1,617 met.; no gen.; sales 23,505,119 kWh; rev. $1,184,954. (1938)[5]

NEW MADRID Mun. Light & Power, 560 Mott St., Box 256, 63869, 314/748-2458; Don Lloyd, city admin.; 1,538 met.; no gen.; pur. 32,248,488 kWh; rev. $959,408. (1938)*[5]

NIXA City of, Box 395, 65714, 417/725-3229, Bill Chitwood, mayor, 1,214 met., no gen.; pur. 18,378,000 kWh; rev. $541,491. (1967)[5]

ODESSA City of, Box 128, 64076, 816/633-4232, Charles A. Feith, mayor; 1,355 met.; gen. 8,185 kW, 985 kW oil, comb. eng., 7,200 kW dual-fuel eng., 1,942,100 kWh; pur. 25,185,600 kWh; rev. $1,385,244. (1939)[5]

OSCEOLA Mun. Utils., Box 321, 64776, 417/646-8421, Agnes Dyer, bd. chairperson; 434 met.; no gen.; pur. 4,930,000 kWh; rev. $276,059. (1971)*[5]

OWENSVILLE City of, Mun. Utils., 109 N. 2nd, 65066, 314/437-2312, Roy Bizzle, supt.; 1,500 met.; gen. 2,110 kW diesel; rev. $94,000. (1938)[5]

PALMYRA Bd. of Pub. Works, 301 S. Main, 63461, 314/769-2224, William D. Huffman, gen. supt.; 1,825 met.; gen. 1,000 kW oil-fired eng.; 9,390 kW dual-fuel eng.; 4,434,800 kWh; pur. 16,266,800 kWh; rev. $1,142,496. (1912)*[5]

PARIS City of, 124 W. Caldwell St., 65275, 816/327-4334, Ralph Jett, supt.; 796 met.; no gen.; pur. 11,042,000 kWh; rev. $518,658.[3]

PATTONSBURG, City of, Box 206, 64670,816/367-4412, Billy Fleming, actg. supt., 279 met.; no gen. (1934)[4]

PERRY Pub. Utils.,127 E. Main, Box 280, 63462, 314/565-3131, Charles T. Forbis, 350 met.; no gen.; pur. 4,976,400 kWh; rev. $227,623.[4]

PLEASANT HILL Mun. Utils., 203 Paul St., 64080, 816/987-2245, Jerry Barbarick, supt.; 1,575 met.; no gen.; pur. 15,919,200 kWh; rev. $1,052,340. (1939)*[3]

POPLAR BLUFF City of, Light and Water-Sewer Depts., 301 S. Main St., 63901, 314/785-5749, James D. Pierce, mgr.; 7,944 met.; gen. 14,000 kW dual-fuel, 440,584 kWh; pur. 170,992,664 kWh; rev. $5,009,341. (1917)*[3]

RICH HILL, City of, Mun. Elec. Plant, Seventh and Walnut Sts., 64779, 417/395-2223, Joy DeTienne, elec. supt.; 796 met.; no gen.; pur. 245,096 kWh; rev. $449,919. (1882)[3]

RICHLAND Mun. Utils., Box 798, 65556, 314/765-3532, Robert Starmer, supt., 1,000 met.; no gen. (1946)[5]

ROCK PORT Bd. of Pub. Wks., 102 W. Clay St., 64482, 816/744-2676, Clayton Chipman, supt.; 1,000 met.; gen. 500 kW oil-fired, 4,750 kW dual-fuel (eng.), 495,800 kWh; pur. 11,700,000 kWh; rev. $584,738. (1932)[3]

ROLLA Mun. Utils.,102 W 9th St., Box 767, 65401, 314/364-1572, James W. Banse, gen. mgr.; 5,501 met.; no gen.; pur. 167,220,000 kWh; rev. $6,139,748. (1945)[4]

ST. JAMES Mun. Utils., 200 N. Bourbeuse, Jefferson St., 65559, 314/265-7011, Kenneth Young, acting supt.; 1,715 met.; no gen.; pur. 28.9 million kWh; rev. $1,196,517.[4]

ST. ROBERT City of, Elec. Utils., Drawer H, 65583, 314/336-3911, Jack Fincher, util. supt.; 1,200 met.; no gen.; pur. 22,119,509 kWh; rev. $1,107,851. (1963)[5]

SALEM, City of, Mun. Elec. Lightworks, 3rd & Washington Sts., 65560, 314/729-4117, Jeanne Hollingshead, supvr., bus. oper.; 2,435 met.; no gen.; pur. 32,712,000 kWh; rev. $1,717,236. (1934)[3]

SALISBURY Mun. Utils., 128 W. 2nd St., 65281, 816/388-6197, Ray Callanan, supt.; 1,500 met.; gen. 2,000 kW oil (eng.), 168,000 kWh; pur. 14,802,000 kWh; rev. $880,098.[5]

SHELBINA City of, 127 W. Chestnut, 63468, 314/588-4104, G.N. Rainey, supt.; 1,135 met.; gen. 3,000 kW dual-fuel, 16,760,000 kWh; pur. 16,512,000 kWh.[5]

SIKESTON Bd. of Mun. Utils.,138 N. Prairie, Box 370, 63801, 314/471-3328, E R. Inman, util. dir.; 7,618 met.; gen. 251,050 kW, 241,250 kW coal, 9,800 kW oil-fired, 1,542,372,640 kWh; pur. 371,448,936 kWh; rev. $55,283,314. (1931)*[4]

SLATER City of, 109 N. Main St., 65349, 816/529-2271, Kevin Kenzenkovic, city mgr.; 1,100 met.; no gen.; pur. 11,427,758 kWh; rev. $748,526.[5]

SPRINGFIELD City Utils., 301 E. Central St., Box 551, H.S.J., 65801, 417/831-8615, Robert E. Roundtree, gen. mgr.; 64,009 met.; gen. 550,000 kW, 447,000 kW steam turbine; 88,000 kW gas turbine; 15,000 oil (eng.), 1,594,697,000 kWh; pur. 306,315,000 kWh; rev. $69,950,166. (1945)*[5]

STANBERRY Dept. of Light, Gas & Water, First & Locust St., 64489, 816/783-2725, Sam W. Hatheway, supt., bd. of pub. wks.; 708 met.; gen. 5,108 kW, 226,320 kWh. (1937)[5]

STEELVILLE, City of, Box M, 65565, 314/775-2181, Virgil L. Robinson, city engr.; 815 met.; no gen.; pur. 12,451,080 kWh; rev. $427,505.[3]

SULLIVAN Mun. Util., 305 N. Park St., 63080, 314/468-4612, Joseph Thurmond, light comm.; 2,600 met.; no gen.; pur. 61,000,000 kWh. (1942)[5]

THAYER City of, Second and Market St., 65791, 417/264-3921, Ira Goans, supt.; 863 met.; no gen.[5]

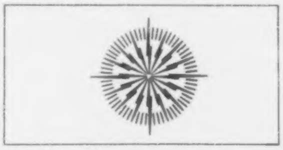
TRENTON Mun. Util., Box 108, 64683, 816/359-2281, Gary Whorton, supt.; 3,137 met.; gen. 2,375 kW gas (comb. cycle), 15,375 kW oil (eng.), 2,132,000 kWh; pur. 59,754,330 kWh; rev. $3,405,951. (1937)*[5]

UNIONVILLE Light & Power, 1611 Grant St., 63565, 816/947-2168, Dennie Sheehan, supt.; 1,360 met.; gen. 3,940 kW oil-fired (eng.), 2,910 kW gas-fired (eng.), 343,000 kWh, pur. 13,697,000 kWh; rev. $805,000. (1921)[5]

VANDALIA Bd. of Pub. Wks., 202 E. Park St., 63382, 314/594-3302, Jim Millard, acting supt.; 1,520 met.; gen. 9,152 kW oil (eng.), 1,556.920 kWh; pur. 13,753,000 kWh; rev. $893,789. (1938)*[5]

WAYNESVILLE Mun. Elec. Util., 201½ North St., 65583, 314/774-6823, Tom Tinsley, supt.; 1,367 met.; no gen.; pur. 20,872,800 kWh; rev. $1,134,000. (1963)[5]

WEST PLAINS City Utils., 1910 Holiday Lane, Box 710, 65775, 417/256-7176, Lowell B. Patterson, city engr.; 4,096 met.; no gen.; pur. 91,951,500 kWh; rev. $3,206,606. (1918)*[3]



MONTANA

LIVINGSTON City of, 414 E. Callender St., 59047, 406/222-6120, ext. 201, Ed Stern, asst. to mayor; gen. 220 kW wind; 120,000 kWh; pur. none (city does not distribute electricity).*†[5]

NEBRASKA

ALLIANCE Mun. Elec. System, 320 Larmie Ave., Box D, 69301, 308/762-5400, Dick Bacon, elec. supt.; 6,535 met.; gen. 7,500 kW dual-fuel (standby); pur. 94,108,447 kWh: rev. $4,895,090. (1916)*[5]

ANSLEY, Village of, Mun. Light Dept., Box 39, 68814, 308/935-2181, Richard Amsberry, supt.; 300 met.; gen. 1,100 kW dual-fuel eng. (standby) (1914)[5]

ARAPAHOE Light & Water, 603 Elm St., Box 235, 68922, 308/962-7445, Wesley F. Smith, util. supt.; 671 met.; no gen.; pur. 7,000,000 kWh; rev. $441,835. (1921)[3]

ARNOLD Light & Water, Box 35, 69120, 308/848-2228, Rex L. McKain, electrician; 700 met.; no gen.; pur. 6,735,647 kWh; rev. $239,998. (1935)[5]

AUBURN, City of, Bd. of Pub. Works, 1600 O St., Box 288, 68305, 402/274-4981, Lambert K. Blecha, gen. mgr.; 2,672 met.; gen. 700 kW oil, 10,600 kW dual-fuel (eng.), 261,400 kWh; pur. 16,089,372 kWh; rev. $2,036,304. (1939)*†[5]

BARTLEY, Village of, 222 Lemon St., 69020, 308/692-3213, Melvin Meguire, util. supt.; 200 met.; no gen.; pur. 1,771,500 kWh; rev. $136,570. (1925)[5]

BATTLE CREEK Mun. Light & Power Dept., Box 280, 68715, 402/675-2165, Donald Beal, elec. supt.; 597 met.; no gen.; pur. 8,488,355 kWh; rev. $406,804. (1948)[3]

BAYARD City Light & Water Dept., Box 160, 69334, 308/586-1121, L. G. Sanchez, supt.; 600 met.; no gen.; pur. 11,760,000 kWh.; rev. $332,136.[5]

BEATRICE, Bd. of Pub. Works, Box 279, 68310, 402/223-5211, James Bauer, gen. mgr.; 6,584 met.; no gen.; pur. 104,265,049 kWh, rev. $5,010,901. (1947)[5]

BEAVER CITY, Light & Water Plant, 68926, 308/268-2125, Darrel Brown, mayor; 444 met.; gen. 300 kW oil (combus. eng.),1,760 kW dual-fuel (eng.); 10,600 kWh; pur. 4,703,288 kWh; rev. $342,221. (1912)[5]

BENKELMAN, City of, Mun. Water & Light Plant, Box 197, 69021, 308/423-2466, Bill Seybold, plant supt.; 665 met.; gen. 900 kW gas (eng.); pur. 7,656,332 kWh; rev. $427,718.[3]

BLUE HILL Elec. Dept., Box 277, 68930, 402/756-3771, Royal Roskilly, supt.; 414 met.; gen. 1,200 kW dual-fuel (eng.); pur. 6,423,566 kWh; rev. $158,473. (1910)[3]

BRADSHAW Elec. Dept., Box 155, 68319, 402/736-4649, Julie Cerny, clerk; 150 met.; no gen.[5]

BRAINARD, Village of, 68626, 402/545-2701, Leon Jacub, supt.; 260 met.; no gen.; rev. $126,108.[4]

BRIDGEPORT Utils., Box 280, 69336, 308/262-0617, Charles E. Brandt Jr., supt.; 1,226 met.; no gen.; pur. 11.6 million kWh; rev. $383,827. (1950s)[4]

BROKEN BOW Mun. Utils., 314 S. 10th Ave.,Box 567, 68822, 308/872-6884, Laverne Martens, util. supt.; 2,300 met.; gen. 8,720 kW dual-fuel eng., 482,830 kWh; pur. 36,900,000 kWh; rev. $1,389,136. (1946)†[4]

BURT COUNTY PUBLIC POWER DISTRICT, 613 N. 13th St.,Tekamah, 68061, 402/374-2631, Raymond Carlson, gen. mgr.; 3,875 met.; no gen.; pur. 83,494,203 kWh; rev. $4,453,445. (1935)[5]

BURWELL, City of, Box 604, 68823, 308/346-4898, David E. Cox, foreman; 773 met.; gen. 4,500 kW dual-fuel eng.; pur. 9,308,848 kWh; rev. $570,381. (1918)[5]

BUTLER COUNTY RURAL PUBLIC POWER DISTRICT, 1331 Fourth St., David City, 68632, 402/367-3081, Richard S. Polak, gen. mgr.; 3,782 met.; no gen.; pur. 64,358,087 kWh; rev. $3,479,333. (1937)[5]

CALLAWAY, Village of, Box 157, 68825, 308/836-2262, Larry Nelson, supt.; 360 met.; no gen.; pur. 5,349,631 kWh; rev. $164,038. (1912)[5]

CAMBRIDGE Mun. Light & Water Box 297, 69022, 308/697-3713, Ken Fichtner, supt.; 625 met.; no gen.; pur. 7.4 million kWh.[4]

CAMPBELL Mun. Elec. Dept.,68932, 402/756-8111, Greg L'Heureux, supt.; 250 met.; gen. 1,300 kW oil-eng. (1910)[5]

CEDAR-KNOX PUBLIC POWER DISTRICT, 109 State St., Hartington, 68739, 402/254-6291, Jerome B. Litz, gen. mgr.; 4,226 met.; no gen.; pur. 96,456,010 kWh; rev. $4,599,710. (1937)[5]

CENTRAL CITY Elec. Dept., Box 418, 68826, 308/946-3806, Jack Merrill, supt.; 1,713 met.; no gen.; pur. 22 million kWh; rev. $1,220,672. (1909)[5]

CENTRAL NEBRASKA PUBLIC POWER & IRRIGATION DISTRICT, Box 356, Holdrege, 68949, 308/995-8601, Frank J. Dragoun, gen. mgr.; gen. 108,800 kW oil/gas (steam turbine), 104,000 kW hydro, 345,565,203 kWh; rev. $7,027,000. (Sells power to Nebraska Public Power District.) (1933)*†[5]

CHAPPELL Mun. Utils., Box 487, 69129, 308/874-2401, Gordon Adkins, supt.; 698 met.; gen. 1,430 kW oil, eng. (standby); pur. 9,658,000 kWh; rev. $412,000. (1911)[5]

CHESTER, Village of, 621 Thayer Ave., Box 335, 68327, 402/324-5755, Raymond Wit, 253 met.; no gen.; pur. 2,801,428 kWh; rev. $176,985. (1920)[5]

CHIMNEY ROCK PUBLIC POWER DISTRICT, Box 608, Bayard, 69334, 308/586-1824, Jim Reiber, mgr.; 2,214 met.; no gen.; pur. 37,521,719 kWh; rev. $2,333,315.[4]

CLARKSON, Elec. Dept., Box 18, 68629, 402/892-3100, Thomas Schulze, elec. comm.; 365 met.; no gen.; pur. 6,482,000 kWh; rev. $321,840. (1925)[5]

CORNHUSKER PUBLIC POWER DISTRICT, Box 9, Columbus, 68601, 402/564-2821, Norman L. Hoge, gen. mgr.; 7,182 met.; no gen.; pur. 170,415,701 kWh; rev. $8,798,324. (1942)[5]

COZAD Bd. of Pub. Wks., 211 W. 8th St., Box 65, 69130, 308/784-3939, Lloyd Keller, light comm.; no gen.; pur. 53,352,000 kWh; rev. $2,480,840. (1939)[5]

CRETE, City of, Elec. Dept., City Hall, 243 E. 13th St., 68333, 402/826-4311, George G. Beyer, util. mgr.; 2,188 met.; gen. 420 kW oil, 14,857 kW dual-fuel (eng.); 693,000 kWh; pur. 57,069,030 kWh; rev. $3,017,396. (1887)*†[5]

CUMING COUNTY PUBLIC POWER DISTRICT, 500 S. Main St., Box 77, West Point, 68788, 402/372-2463, Thomas A. Thomas, gen. mgr.; 2,713 met.; no gen.; pur. 86,071,031 kWh; rev. $4,682,955. (1935)[5]

CURTIS Light & Water, 308 Center Ave., Box 6, 69025, 308/367-4122, Gordon Petersen, supt.; 761 met.; no gen.; pur. 10,206,461 kWh; rev. $588,786. (1913)[5]

CUSTER PUBLIC POWER DISTRICT, Box 10, Broken Bow, 68822, 308/872-2451, John H. Evans, mgr.; 8,047 met.; no gen.; pur. 119,188,582 kWh; rev. $6,512,315. (1944)[4]

DAKOTA CITY, City of, Box 482, 68731, 402/987-3331, Gary Lukowski, city admin.; 530 met.; no gen.; pur. 10,438,716 kWh; rev. $520,799. (1910)[5]

DAVENPORT, Village of, Box 119, 68335, 402/364-2292, Pete Mesloh, util. supt.; 252 met; no gen; pur. 3,361,000; rev. $198,000 [5]

DAVID CITY Light Dept., 402 5th St., 68632, 402/367-3135, Gene Grubaugh, supt.; 1,333 met.; gen. 5,750 kW dual-fuel (eng.), (standby), 119,700 kWh; pur. 23,022,000 kWh; rev. $1,210,248. (1913)*†[5]

DAWSON COUNTY PUBLIC POWER DISTRICT, Box 777, Lexington, 68850, 308/324-2386, Philip E. Darby Jr., mgr.; 14,918 met.; no gen.; pur. 258,915,176 kWh; rev. $13,240,189. (1937)[5]

DECATUR, Village of, 68020, 402/349-5360, Larry Kellogg, util. supt.; 450 met.[4]

DESHLER Mun. Utils., Box 189, 68340, 402/365-4260, R. G. Koerwitz, city clk.; 481 met.; no gen.; pur. 7,451,600 kWh.[4]

DE WITT Mun. Light & Power Plant, Box 208, 68341, 402/683-5025, Charles McDougall, util. supt.; 320 met.; no gen.; pur. 13 million kWh; rev. $613,000.[5]

DORCHESTER, Village of, Box 287, 68343, 402/946-3201, Edward Dvorak, util. supt.; 283 met.; no gen.; pur. 3,629,157 kWh; rev. $16,236.[5]

DOUGLAS, Village of, 68344, 402/799-2330, Ken Gee, supt.; 200 met.; no gen. (1926)[4]

EDGAR, Light & Water Dept., Box 485, 68935, 402/224-5145, Nelson Hamblin, util. supt.; 375 met.; no gen.; pur. 5,047,891 kWh; rev. $299,574.[5]

ELK CREEK Elec. Dept.; 68348, 402/877-2105, A. J. Damm, util. supt.; 92 met.; no gen.; sales 882,320 kWh; rev.$49,116. (1920)[4]

ELKHORN RURAL PUBLIC POWER DISTRICT, Battle Creek, 68715, 402/675-2185, Milton Smith, mgr.; 6,259 met.; no gen.; sales 102 million kWh; rev. $6,171,463. (1939)[5]

EMERSON Mun. Utils., Box 336, 68733, 402/695-2554, David Gradert, elec. supt.; 409 met.; 1,732 kW; 295,400 kWh; pur. 4,372,200 kWh; rev. $307,475. (1912)[5]

ENDICOTT Elec. Dept., 68350, 402/729-3404, Clyde Kellie, clerk; 66 met.; no gen.; rev. $37,651.[4]

FAIRBURY Light & Water, 612 D St., 68352, 402/729-3030, Edward R. Brandt, supt.; 3,591 met.; gen. 19,000 kW gas (steam turbine), (standby); 1,000,000 kWh; pur. 56 million; rev. $2.8 million. (1910)†[5]

FAIRMONT Mun. Utils., Box 156, 68354, 402/268-3341, Russell Snodgrass, supt.; rev. $278,365.[4]

FALLS CITY, City of, Utils., 1820 Towle St., 68355, 402/245-2741, Martin R. Gist, city admin.; 2,900 met.; gen. 22,282 kW dual-fuel comb. eng.; 1,364,600 kWh; pur. 32,326,926 kWh; rev. $2,212,405. (1890)[5]

FILLEY Utils., Box 85, 68357, 402/662-3555, Harold Huls and David Norten, light commissioners; 100 met.; no gen.; pur. 950,000 kWh; rev. $55,000.[5]

FRANKLIN, City of, Light & Water Dept., 619-15th Ave., Box 232, 68939, 308/425-6263, Olin Wolf, supt.; 861 met.; gen. 4,080 kW; 59,500 kWh; pur. 75,308 kWh; rev. 512,751. (approx. 1910)[5]

FRANKLIN COUNTY RURAL PUBLIC POWER DISTRICT, 101 16th Ave., Box 246, Franklin, 68939, 308/425-6217, Arnold Esplund, mgr.; 1,800 met.; no gen.; pur. 25,124,706 kWh; rev. $1,454,875. (1946)[5]

FREMONT, Dept. of Utils., 725 N. Park Ave., Box 1468, 68025, 402/721-2490, Jon K. McCafferty, gen. mgr.; 12,017 met.; gen. 136,000 kW coal, 286,241,700 kWh; pur. 18,450,000 kWh; rev. $12,364,787. (1895)*†[5]

FRIEND, City of, 235 Maple St., 68359, 402/947-2711, Robert Moore, supt. of utils.; 620 met.; no gen.; pur. 8,178,768 kWh. rev. $467,059. (1905)[5]

GERING, City of, 1450 10th St., 69341, 308/436-5096, R.L. Stull, city adm.; 3,364 met.; no gen.; pur. 67,464,310 kWh; rev. $2,284,093. (1934)*†[5]

GILTNER Mun. Util., Box 254, 68841, 402/849-2845, Tom Lambert, util. supt.; no gen.; rev. $163,475.[4]

GOTHENBURG Public Works Div., 490 9th St., 69138, 308/537-3668, Stan Hite, elec. foreman; 1,720 met.; no gen.; pur. 34,382,000 kWh; rev. $1,528,143. (1956)[5]

GRAND ISLAND Mun. Light System, Box 1968, 68802-1968, 308/381-5487, Robert J. Olson, dir. util. oper; 18,997 met.; gen 207,300 kW, 100,000 kW coal, 92,500 kW gas turbine, 14,800 kW gas (combus. turbine); 282,789,000 kWh; pur. 90,161,000 kWh; rev. $20,520,000. (1905)*[5]

GRANT, Village of, Box 614, 69140, 308/352-2100, John Mathes, util. supt.; no gen.; pur. 11,800,000 kWh; rev. $588,254. (operated by Midwest Electric Membership Corp.)[3]

GREENWOOD, Village of, Box 86, 68366, 402/789-2300, Edwin D. Koehler, maint.; 242 met.; no gen.; pur. 3,856,950 kWh; rev. $207,180.(1932)[5]

HAMPTON, Village of, Box 277, 68843, 402/725-3186, Maynard Purdy, mayor; 210 met.; no gen.; pur. 2,914,241 kWh; rev. $168,000. (1905)[5]

HASTINGS Utils., Box 289, 68901, 402/463-1371, L.V. Blocker, mgr. of utils.; 11,294 met.; gen. 76,500 kW oil, 54,000 kW dual-fuel (steam turbine, standby), 22,000 kW oil (combus. turbine); 156,230,240 kWh; pur. 51,347,784 kWh; rev. 11,543,393. (1901)*[5]

HEBRON Elec. Dept., 216 Lincoln Ave., 68370, 402/768-6322; LaVon Boman, mgr., elec. dept., 900 met.; no gen.; pur. 13,399,364 kWh; rev. $827,170.[5]

HEMINGFORD, Mun. Utils., Box 395, 69348, 308/487-3465, Jess Gonzales, supt.; 683 met.; no gen.; pur. 6,148,443 kWh; rev. $357,125. (1956)[5]

HICKMAN, Village of, Box 127, 68372, 402/792-2212, Leon Ten Hulzen, supt.; 350 met., no gen.; pur 6,457,200 kWh; rev. $322,805.[5]

HILDRETH Utils., Box 217, 68947, 308/938-2471, Dale Casper, supt.; 212 met.; no gen.; rev. $160,013.[4]

HOLBROOK Mun. Light & Power Plant, Box 148, 68948, 308/493-5653, Don Vonderfecht, supt.; 182 met.; no gen.; pur. 1.5 million kWh; rev. $82,580.[4]

HOLDREGE, City of, Box 436, 68949, 308/995-8681, Marvin Paulsen, utils. supt.; 3,097 met.; gen. 2,000 kW oil (combus. eng.); pur. 85 million kWh; rev. $3,592,737. (1919)[5]

HOWARD GREELEY RURAL PUBLIC POWER DISTRICT, 422 Howard Ave., Box 105, St. Paul, 68873, 308/754-4457, Roy L. Olsen, mgr.; 2,551 met.; no gen.; pur. 56,736,412 kWh; rev. $2,818,772. (1938)[5]

HUBBELL, Village of, Elec. Dept., Box 42, 68375, 402/324-4141, Gerald Van Winkle, comm.; 86 met.; no gen.; sales 374,122 kWh; rev. $27,149.[3]

IMPERIAL Mun. Utils., Box 637, 69033, 308/882-5151, Marvin S. Athey, supt. of utils.; 1,157 met.; no gen. (600 kW oil-fired eng., standby); pur. 21,958,620 kWh; rev. $981,685.†[5]

INDIANOLA, City of, Drawer F, 69034, 308/364-2413, Warren Young, supt.[5]

KBR RURAL PUBLIC POWER DISTRICT, Box 187, Ainsworth, 69210, 402/387-1120, Rich Walters, mgr.; 3,333 met.; no gen.; pur. 42,392,497 kWh; rev. $2,528,811. (1950)[5]

KIMBALL Mun. Utils., 223 S. Chestnut, 69145, 308/235-3639, Robert E. Arraj, city admin.; 1,732 met.; gen. 9,300 kW eng., 21,210,000 kWh; rev. $1,320,535. (1912)*[5]

LAUREL Mun. Elec. Light & Power, 101 W. 2nd St., 68745, 402/256-3112, L. J. Mallatt, city admin.; 616 met.; gen. 3,885 kW dual-fuel eng.; 117,000 kWh; pur. 7,326,810; rev. $352,737. (1916)[5]

LEIGH, Village of, Box 277, 68643, 402/487-2749, Reynold Dolesh, util. supt.; 298 met.; no gen.; pur. 4,829,200 kWh; rev. $368,000.[5]

LEXINGTON, City of, Box 70, 68850, 308/324-2343, Pete Bishop, elec. supt.; 3,370 met.; no gen.; pur. 73,614,985 kWh; rev. $3,418,846. (1945)[5]

LINCOLN Elec. System, 1200 "N" St., Suite 300, 68508, 402/475-4211, Walter A. Canney, adm.; 81,827 met.; gen. 207,000 kW coal (steam turbine), 57,000 kW oil (combus. turbine), 28,000 kW oil & gas (combus. turbine); 1.6 billion kWh; pur. 1.1 billion kWh; rev. $89,627,000. (1913)*†[5]

LODGEPOLE, Village of, Box 164, 69149, Lloyd R. Dykman, supt.; 217 met.; pur. 7.2 million kWh. (1915)[4]

LOUP RIVER PUBLIC POWER DISTRICT, 2404-15th St., Columbus, 68601, 402/564-3171, Max E. Kiburz, gen. mgr.; 15,591 met.; gen. 48,150 kW hydro, 112,426,000 kWh; pur. 598,438,328 kWh; rev. $23,044,380. (1933)*†[5]

LOUP VALLEYS RURAL PUBLIC POWER DISTRICT, Box 166, Ord, 68862, 308/728-3633, Kenneth W. Clement, mgr.; 3,560 met.; no gen.; pur. 53,432,823 kWh; rev. $3,086,100. (1946)[5]

LYMAN, Village of, 414 Jeffer, Box 301, 69352, 308/787-1444, R.G. Bode, chmn bd. of trustees; 293 met.; no gen.; pur. 2,654,802 kWh; rev. $214,216. (1922)†[5]

LYONS Mun. Utils., 100 Main St., 68038, 402/687-2130, Dean J. Zoet, supt. of utils.; 647 met.; gen. 300 kW oil-fired, 2,485 kW dual-fuel (eng.) (standby); pur. 7,857,557 kWh;rev. $387,665. (1915)[5]

MADISON, City of, Box 527, 68748, 402/454-3412, S. Wells Williams, city adm., 926 met.; gen. 690 kW oil, 4,560 kW dual-fuel (eng.), 111,300 kWh; pur. 33,005,400 kWh; rev. $1,500,000. (1901)[5]

McCOOK PUBLIC POWER DISTRICT, N. Hwy. 83 & Q St., McCook, 69001, 308/345-2500, Douglas Mollet, gen. mgr.; 4,680 met.; no gen.; pur. 151,431,469 kWh; rev. $7,739,354. (1935)[5]

MINDEN Light & Water Comm., 325 N. Colorado Ave., 68959, 308/832-1820, Thomas B. Kenney, city admin.; 1,800 met.; no gen.[5]

MITCHELL Light & Water, 1444-12th St., 69357, 308/623-2133, 623-2446, Wayne Kautz, supt.; 877 met.; no gen.; pur. 14,246,744 kWh; rev. $475,510. (1934)[3]

MORRILL, Village of, Box 305, 69358, 308/247-2312, Robert Morton, elec. supt.; 877 met.; no gen.; pur. 11,738,000 kWh; rev. $555,219. (est. 1900s)[5]

MULLEN, Village of, Box 187, 69152, 308/546-2625, Eddie Swendener, util. supt.; 400 met.; gen. 1,125 kW diesel oil-fired; pur. 4 million kWh; rev. $497,000. (1957)[5]

NEBRASKA CITY Utils., 100 Central Ave., 68410, 402/873-3353, William T. Brockley, gen. mgr.; 5,314 met.; gen. 30,265 kW dual-fuel (eng.); 33,154,770 kWh; pur. 32,966,977 kWh; rev. $4,164,770. (1944)*[5]

NEBRASKA PUBLIC POWER DISTRICT (formerly Consumers Public Power District), 1414 15th St., Box 499, Columbus, 68601, 402/564-8561, Don E. Schaufelberger, gen. mgr.; 107,734 met.; gen. 3,051,129 kW, 1,674,768 kW coal, 156,300 kW gas, 835,550 kW nuclear, 145,250 kW oil (comb. turbine), 26,296 kW oil (eng.), 29,627 dual-fuel (eng), 183,338 kW hydro; 8,058,607,958 kWh; pur. 1,634,050,481; rev. $300,185,095. (1939)*[5]

NELIGH Municipal Power, 110 E. 4th, 68756, 402/887-4066, Eugene Zillig, supt.; 1,068 met.; no gen.; sales 12,571,459 kWh; rev. $826,115.[5]

NELSON, City of, Mun. Light & Water Dept. Box 327, 68961, 402/225-4401, Virgil Schleif, utils. supt., 378 met.; no gen.; pur. 4,098,014 kWh; $218,748.[3]

NORRIS PUBLIC POWER DISTRICT, 606 Irving St., Box 399, Beatrice, 68310, 402/223-4038, Glen R. Schmieding, gen. mgr.; 11,700 met.; no gen.; pur. 345,798,211 kWh; rev. $16,022,004. (1933)[5]

NORTH CENTRAL PUBLIC POWER DISTRICT, Box 7, Creighton, 68729, 402/358-5112, Donald G. Elwood, mgr.; 3,568 met.; no gen.; pur. 61,323,020 kWh; rev. $3,348,427. (1945)[5]

NORTHEAST NEBRASKA RURAL PUBLIC POWER DISTRICT, 511 Main St., Emerson, 68733, 402/695-2642, Cletus J. Temple, gen. mgr.; 2,617 met.; no gen.; pur. 58,831,395 kWh; rev. $2,771,372. (1939).[5]

NORTH PLATTE Mun. Lt. & Power, 3rd and Vine St., Box 490, 69103, 308/532-5320, John F. Cox, mgr. 12,982 met.; no gen.; pur. 191 million kWh; rev. $8,801,037. (1940)*[5]

NORTHWEST RURAL PUBLIC POWER DISTRICT, Box 249, Hay Springs, 69347, 308/638-4445, Rolland Skinner, mgr.; 2,797 met.; no gen.; pur. 51,570,237 kWh; rev. $3,903,253. (1947)[5]

OMAHA PUBLIC POWER DISTRICT, 1623 Harney St., 68102-2247, 402/536-4000, B. W. Reznicek, pres.; 224,501 met.; gen. 1,994,500 kW, 1,214,500 kW coal, 91,800 kW oil, 476,000 kW nuclear (steam turbine), 212,200 kW gas (combus. turbine); 6,712,771,600 kWh; pur. 657,372,000 kWh; rev. $301,739,380. (1946)*†[5]

ORD, City of, 240 S. 16th St., 68862, 308/728-3595, Gene Baugh, util. supt.; 1,850 met.; gen. 10,000 kW dual-fuel (eng.); pur. 21,430,797 kWh; rev. $1,058,612. (1916)[5]

OXFORD Mun. Light & Power Box 385, 68967, 308/824-3511, Ronald Ludeke, supt.; 650 met.; no gen.[4]

PENDER Elec. Util., 68047, 402/385-3121, Robert Fendrick, supt; 679 met.; rev. $416,194. (1920)[4]

PIERCE Utils, Light & Power, 114 S. Brown, 68767, 402/329-4535, Clarence H. Wattier, mgr.; 1,818 met.; no gen.; pur. 13,722,568 kWh; rev. $655,846. (1941)*[3]

PLAINVIEW Mun. Utils., Box 307, 68769, 402/582-4928, Fred Diedrichsen, utils. supt.; 958 met.; pur. 9.6 million kWh; rev. $467,000. (1910)[4]

POLK Light & Water Works, Box 6, 68654, 402/765-6471, Matthew L. Redman, supt.; 250 met.; no gen.; pur. 52,812 kWh; rev. $110,680. (1906)[5]

POLK COUNTY RURAL PUBLIC POWER DISTRICT, 120 W. 4th St., Stromsburg, 68666, 402/764-4381, Merlin Steele, mgr.; 2,409 met.; no gen.; pur. 49,013,920 kWh; rev. $2,371,131. (1936)[4]

PRAGUE Elec. Dept., 68050, 402/663-5235, Robert Koranda, light comm.; 173 met.; no gen.; pur. 2,616,000 kWh.[5]

RANDOLPH Mun. Light Plant, Box 220, 68771, 402/337-0553, LeRoy Brummels, supt.; 640 met.; gen. 2,400 kW dual-fuel eng., 101,900 kWh; pur. 6,352,607 kWh; rev. $337,363. (1916)[5]

RED CLOUD Mun. Light and Power, 540 N. Webster, 68970, 402/746-2214, Kenneth P. Schwartz, supt. of utils.; 829 met.; gen. 6,500 kW dual-fuel eng.; 456,782 kWh; pur. 10,118,830 kWh; rev. $423,190. (1912)*[3]

REYNOLDS, Village of, 68429, 402/324-3135, Don Gregory, utils. supt.; 68 met. (1923)[4]

ROOSEVELT PUBLIC POWER DISTRICT, 1633 - 13th, Box 97, Mitchell, 69357, 308/623-2124, H. F. Moranville, mgr.; 2,359 met.; no gen.; pur. 44,718,608 kWh; rev. $2,499,580. (1935)[5]

ST. PAUL, City of, 522 Howard Ave., 68873, 308/754-4483, Charles M. Schmid, city supt.; 1,092 met.; no gen.; pur. 13,230,402 kWh; rev. $629,805.[5]

SARGENT, City of, Box 40, 68874, 308/527-4200, Larry D. Kelly, supt.; 460 met.; gen. 2,488 kW dual-fuel eng., 22,900 kWh; pur. 6,376,540 kWh; rev. $259,951. (1916)[5]

SCHUYLER, City of, Dept. of Utils, 124 E. 11th St., 68661, 402/352-5445, Fred Ayers, utils. supt.; 2,110 met.; pur. 80,200,000 kWh; rev. $2,736,569. (1892)*[5]

SEWARD, City of, Mun. Elec. Light Dept., Box 69, 7th St., 68434, 402/643-2927, Lawrence Fiala, elec. supt.; 2,518 met.; no gen.; pur. 44,001,286 kWh; $2,203,687. (1921)[3]

SEWARD COUNTY RURAL PUBLIC POWER DISTRICT, Box 69, Seward, 68434, 402/643-3434, Ron D. Holsteen, mgr.; 2,506 met.; no gen.; pur. 44,621,269 kWh; rev. $2,470,877. (1938)[3]

SHICKLEY, Village of, 68436, 402/627-2055, Earl Frieden, board chairman; 212 met.; no gen.; pur. 3,404,952 kWh; rev. $170,742. (1923)[5]

SIDNEY, City of, 1115-13th Ave., 69162, 308/254-5300; Bob Willis, plant supt.; 3,011 met.; gen. 7,550 kW dual-fuel (eng.), 700 kW oil (eng.); pur. 36,299,760 kWh; rev. $1,543,713. (1942)*[5]

SNYDER Elec. Dept., 68664, 402/568-2306, Jack Lennemons, supt., 203 met.; no gen.; pur. 4,800,000 kWh; rev. $180,000. (1910)[5]

SOUTH CENTRAL PUBLIC POWER DISTRICT, Box 406, Nelson, 68961, 402/225-2351, Yale A. Meyer, mgr.; 3,999 met.; no gen.; pur. 93.9 million kWh; rev. $4,523,890. (1961)[5]

SOUTH SIOUX CITY Util., 1615 1st Ave., 68776, 402/494-5827, Bill Bradish, elec. supt.; no gen.; sales 77,267,390 kWh; rev. $4,101,127. (1896)[5]

SOUTHERN NEBRASKA RURAL PUBLIC POWER DISTRICT, 1306 W. 3rd, Grand Island, 68801, 308/384-2350, Charles J. Hoke, gen. mgr.; 16,649 met.; no gen.; pur. 430,143,332 kWh; rev. $21,041,997. (1937)[5]

SOUTHWEST PUBLIC POWER DISTRICT, 221 N. Main, Palisade, 69040, 308/285-3295, Donald H. Husted, gen. mgr.; 5,004 met.; no gen. pur. 116,440,061 kWh; rev. $6,277,815. (1954)[5]

SPALDING Mun. Light & Power Plant, Box 268, 68665, 308/497-2416, Paul F. Semper, supt.; 473 met.; gen. 2,303 kW, 2,153 kW int. combus. eng., 150 kW hydro, 906,780 kWh; pur. 5,239,545 kWh; rev. $180,000. (1954)[5]

SPENCER, Village of, Mun. Lt. & Pwr., Box 15, 68777, 402/589-1130, Lyle Karnes, lt. & wtr. comm.; 360 met.; no gen.[5]

STANTON COUNTY PUBLIC POWER DISTRICT, Box 308, Stanton, 68779, 402/439-2228, George E. Cunningham, mgr.; 2,486 met.; no gen.; pur. 40,389,771; rev. $2,148,550. (1936)[5]

STRATTON Water & Light Dept., Box 116, 69043, 308/276-2184, A.R. Terrell, utils. supt.; 240 met.; no gen.; pur. 3,180,938 kWh.[5]

STROMSBURG Elec. Dept., 122 E. 3rd, 68666, 402/764-2561, M.D. Simpson, supt.; 590 met.; no gen.; pur. 8,534,592, rev. $511,153. (1936)[5]

STUART Mun. Water & Power, Box 177, 68780, 402/924-3977, M. A. Jauernig, supt.; 350 met.; gen. 1,373 kW, 678 kW oil-fired eng., 675 kW dual-fuel eng., 11,000 kWh; pur. 4,837,000 kWh; rev. $208,417. (1922)[5]

SUPERIOR Utils., Box 160, 68978, 402/879-4711, Richard Elliott, dir. pub. wks.; 1,506 met.; no gen.; pur. 28,175,427 kWh; rev. $1,463,015. (1941)[5]

SUTTON Light & Power Plant, Box 437, 68979, 402/773-5501, Rolly Kastens, comm.; 750 met.; no gen.[4]

SYRACUSE Utils., 578 Mohawk, 68446, 402/269-2173, Donald L. Block, util. supt.; 841 met.; no gen.; pur. 12,859,652 kWh; rev. $628,832. (est. 1930s)[4]

TALMAGE Elec. Dept., City Hall, Box 198, 68448, 402/264-3825, Melvin Howe, supt.; 225 met.[5]

TECUMSEH, City of, 122 S. 4th St., 68450, 402/335-3570, LaVerne Martens, supt.; 983 met.; gen. 4,600 kW; sales 21 million kWh; rev. $939,000 (Plant leased to Omaha Public Power District.) (1890)[4]

TRENTON Mun. Light & Power, 101 E. G St., 69044, 308/334-5474, Barney L. Whatley II, supt.; 456 met.; gen. 880 kW oil-fired eng., (standby); pur. 4 million kWh; rev. $277,719. (early 1900s)[5]

TWIN VALLEYS PUBLIC POWER DISTRICT, Box 160, Cambridge, 69022, 308/697-3315, Paul Liess, gen mgr.; 4,470 met.; no gen.; pur. 61,125,959 kWh; rev. $3,694,683. (1944)[5]

UNIVERSITY OF NEBRASKA Utility Plant, 14th & Avery St., Lincoln, 402/472-3131, 68588, Douglas Schmidt, supt.; gen. 6,000 kW steam, 13,574,000 kWh; pur. 87,539,800 kWh. (1934)*[4]

VALENTINE, City of, 323 N. Main St., Box 177, 69201, 402/376-2323, Norma Jean New, city mgr.; 1,800 met., no gen.; sales 31,342,439 kWh; rev. $1,725,227.[5]

WAHOO City of, 605 N. Broadway, 68066, 402/443-3222, Donald Peterson, util. supt.; 1,879 met.; gen. 500 kW oil, 13,140 kW dual-fuel (eng.); 411,900 kWh; pur. 9,254,592 kWh; rev. $1,821,523. (1908)*[5]

WAKEFIELD, City of, Power Plant, 303 Oak St., 68784, 402/287-2547, Larry Lueth, supt.; 546 met.; gen. 4,305 kW dual-fuel eng.; 135,400 kWh; pur. 14,600,000 kWh; rev. $577,034. (1917)[5]

WALTHILL Mun. Elec. Dept., Box 246, 68067, 402/846-5921, Henry L. Johnson, supt.; 400 met.; no gen.; pur. 5,063,927 kWh; rev. $277,487.[5]

WAUNETA Mun. Utils., Box 95, 69045, 308/394-5390, Beryl Knotwell, city clk.; 470 met.; pur. 8.1 million kWh; rev. $327,593. (1948)[5]

WAYNE Mun. Utils., 208 S. Main, 68787, 402/375-2866, Phil Kloster; 2,000 met.; gen. 14,400 kW oil-fired eng., 364,000 kWh; pur. 33,391,000 kWh; rev. $1,631,000. (1897)*[5]

WAYNE COUNTY PUBLIC POWER DISTRICT, 303 Logan, Box 350, Wayne, 68787, 402/375-1360, E. A. Schroeder, mgr.; 2,648 met.; no gen.; pur. 52,156,620 kWh; rev. $2,540,552. (1939)[5]

WEST POINT, City of, 444 S. Main, 68788, 402/372-2466, Howard Parrott, city admin.; 1,532 met.; gen. 8,565 kW dual-fuel (standby); 14,300 kWh; pur. 4,437,413 kWh; rev. $1,116,000. (1922)*[5]

WHEAT BELT PUBLIC POWER DISTRICT, Box 177, Sidney, 69162, 308/254-5871, Gene M. Lienemann, gen. mgr.; 4,059 met.; no gen.; pur. 128,300,936 kWh; rev. $8,465,958. (1947)[5]

WILBER Utils., 324 N. Main, 68465, 402/821-3233, Nelson Behrens, supt.; 800 met.; pur. 11.7 million kWh; rev. $369,438. (about 1900)[4]

WILCOX, Box 158, 68982, 308/478-5510, Merle Ortegren, util. supt.; 212 met.; no gen.; pur. 3,100,000 kWh; rev. $91,500.[5]

WINSIDE, Village of, Box 206, 68790, 402/286-4422, Dennis Van Houten, maint. supt.; 250 met.; no gen.; pur. 2,648,970 kWh; rev. $103,871. (1915)[4]

WISNER Light & Water Dept., 1115 Ave. E, Box 367, 68791, 402/529-6616, Roland Johnson, util. supt. 746 met.; gen. 1,905 kW oil-fired eng.; 6,500 kWh; pur. 13,228,992 kWh; rev. $483,089. (1905)[5]

WOOD RIVER, City of, Box 253, 68883, 308/583-2515, Jim Smith, 523 met.; no gen.; pur. 7,349,272 kWh; rev. $492,570.†[5]

WYMORE, City of, 115 W. E St., 68466, 402/645-3377, John Sullivan, supt.; 910 met.; no gen.; pur. 9,572,735 kWh; rev. $323,210.[5]

YORK COUNTY RURAL PUBLIC POWER DISTRICT, 1121 East Ave., York, 68467, 402/362-3355, Hilary Neesen, gen. mgr.; 3,557 met.; no gen.; pur. 85,233,871 kWh; rev. $4,745,152. (1938)[5]

The following Nebraska communities own their own municipal electric systems which are operated by Nebraska Public Power District under lease agreements:

ABIE, ADAMS, AINSWORTH, ALDA, ALLEN, ANOKA, ARCADIA, ASHTON, ATKINSON, ATLANTA, AURORA, AXTELL, BANCROFT, BARADA, BASSETT, BAZILE MILLS, BEAVER CROSSING, BEE, BEEMER, BELDEN, BELLWOOD, BELVIDERE, BENEDICT, BERTRAND, BIG SPRINGS, BLADEN, BLOOMINGTON, BLUE SPRINGS, BOELUS, BRADY, BRISTOW, BROADWATER, BRULE, BRUNING, BRUNO, BRUNSWICK, BURCHARD, BUTTE.

CAIRO, CARLETON, CENTER, CHADRON, CHAPMAN, CLARKS, CLATONIA, CLAY CENTER, CLEARWATER, CLINTON, CODY, COLERIDGE, COMSTOCK, CONCORD, CORDOVA, CORTLAND, CRAIG, CRAWFORD, CREIGHTON, CROFTON, CROOKSTON, CUSHING, DAWSON, DAYKIN, DEWEESE, DIXON, DODGE, DONIPHAN, DUBOIS, DWIGHT, EDISON, ELBA, ELGIN, ELM CREEK, ELSIE, ELWOOD, EMMET, EUSTIS, EWING, EXETER, FAIRFIELD, FIRTH, FORDYCE, FUNK, GARLAND, GENEVA, GIBBON, GOEHNER, GORDON, GRAFTON, GREELEY, GRESHAM, GUIDE ROCK, HALLAM, HARDY, HARTINGTON, HARVARD, HAY SPRINGS, HEARTWELL, HENDERSON, HENDLEY, HOMER, HORDVILLE, HOSKINS, HUBBARD, HUMBOLDT, HUNTLEY, INMAN, JACKSON, KEARNEY, KENESAW, KILGORE.

LAWRENCE, LEWELLEN, LONG PINE, LOOMIS, LOUP CITY, LUSHTON, LYNCH, McCOOK, McCOOL JUNCTION, McGREW, McLEAN, MADRID, MAGNET, MARQUETTE, MARTINSBURG, MASKELL, MEADOW GROVE, MELBETA, MERRIMAN, MILFORD, MILLER, MILLIGAN, MINATARE, MURRAY.

NAPONEE, NEHAWKA, NENZEL, NEWCASTLE, NEWPORT, NORA, NORFOLK, NORTH LOUP, OAK, OAKDALE, OAKLAND, OBERT, OGALLALA, OHIOWA, O'NEILL, ONG, ORCHARD, ORLEANS, OSCEOLA, OSHKOSH, OSMOND, OVERTON, PAGE, PALMER, PAWNEE CITY, PHILLIPS, PICKRELL, PILGER, PLATTSMOUTH, PLEASANT DALE, PLYMOUTH, PONCA.

RAVENNA, REPUBLICAN CITY, RISING CITY, RIVERTON, ROYAL, RUSHVILLE, RUSKIN, SARONVILLE, SCOTIA, SCOTTSBLUFF, SCRIBNER, SHELBY, SHELTON, SHUBERT, SILVER CREEK, STAMFORD, STAPLEHURST, STEINAUER, STELLA, STERLING, STRANG, SUTHERLAND, SWANTON.

TABLE ROCK, TAMORA, TEKAMAH, THAYER, TILDEN, TOBIAS, UEHLING, ULYSSES, UNION, UTICA, VALPARAISO, VENANGO, VERDON, VIRGINIA, WACO, WATERBURY, WAUSA, WESTERN, WHITNEY, WINNEBAGO, WINNETOON, WOLBACH, WYNOT, YORK.

The following Nebraska communities own their own municipal electric systems which are operated by Loup Power District under lease agreements:

ALBION, BELGRADE, CEDAR RAPIDS, COLUMBUS, CORNLEA, CRESTON, DUNCAN, FULLERTON, GENOA, HOWELLS, HUMPHREY, LINDSAY, MONROE, NEWMAN GROVE, PETERSBURG, PLATTE CENTER, PRIMROSE, RAEVILLE, RICHLAND, ST. BERNARD, ST. EDWARD, TARNOV.

Dannebrog's system is leased to Howard Greely Rural PPD, *Paxton's to Midwest Electric Membership Co-op in Grant, Salem's to Omaha* PPD, *Stanton's to Stanton County* PPD, *Stockham's to Southern Nebraska Rural* PPD *and Surprise to Butler County Rural* PPD.

NEVADA

ALAMO POWER DISTRICT NO. 3, Box 189, Alamo, 89001, 702/725-3335, Douglas J. Miller, mgr.; 453 met.; no gen; pur. 11,075,400 kWh; rev. $238,702. (1942)[5]

BOULDER CITY, City of, 900 Arizona St., Box 367, 89005, 702/293-9200, John P. Names, dir. of pub. works; 5,022 met.; no gen.; pur. 106,384,838 kWh; rev. $2,057,983. (1960)*[5]

CALIENTE Pub. Utils., Box 158, 89008, 702/726-3131, Glenn Van Roekel, pub. wks. dir.; 490 met.; no gen.; pur. 12,290,400 kWh; rev. $351,566. (1943)[5]

COLORADO RIVER COMMISSION OF NEVADA, 1515 E. Tropicana, Suite 400, Las Vegas, 89109, 702/739-1902, Jack L. Stonehocker, dir.; dir.; no gen.; 11 wholesale customers, pur. 1,519,340 kWh; rev. $18,033,515.[5]

FALLON Mun. Elec. System, 55 W. Williams Ave., 89406, 702/423-5107, Ben T. Bartlett, P.E., city mgr.; 2,395 met.; no gen.; pur. 33,378,000 kWh; rev. $2,496,145. (1911)*[3]

LINCOLN COUNTY POWER DIST. No. 1, SR 89063, Box 101, Pioche, 89043, 702/962-5122, William F. Lynch, mgr.; 104 met; no gen.; pur. 67,527,323 kWh; rev. $1,108,634. (1935)[5]

MINERAL COUNTY POWER SYSTEM, Box 1457, Hawthorne, 89415, 702/945-2446, Martha Barlow, county clerk, (System leased to Sierra Pacific Power Co. until year 2000.)[5]

OVERTON POWER DISTRICT NO. 5, 261 S. Jones St., Box 395, Overton, 89040, 702/397-2512, A. Kent Bloomfield, mgr.; 2,268 met.; no gen.; pur. 82,053,467 kWh; rev. $1,984,180. (1939)[5]

PIOCHE Pub. Util., Box 31, 89043, 702/962-5840, Patrick Kelly, mgr.; 325 met.; no gen.[5]

NEW HAMPSHIRE

ASHLAND, Town of, Elec. Dept., 10 Highland St., 03217, 603/968-3083, Thomas E. Marsh, supt.; 938 met.; gen. 80 kW hydro, 306,431 kWh; pur. 16,890,000 kWh; rev. $1,211,037. (1917)[5]

LITTLETON Water & Light Dept., 30 Lafayette Ave., 03561, 603/444-2915, John L. Cassidy, supt.; 3,004 met.; no gen.; pur. 42 million kWh; rev. $2,398,000. (1903)[5]

NEW HAMPTON Village Precinct, 03256, 603/744-3517, Ralph Ness, mgr.; 173 met.; no gen.; pur. 136,655 kWh; rev. $158,416. (1914)[5]

WOLFEBORO Mun. Elec. Dept., Box 629, 03894, 603/569-1246, Guy L. Krapp, mgr.; 3,806 met.; gen. 109,300 kWh; pur. 32,988,000 kWh; rev. $2,266,109. (1897)[3]

WOODSVILLE Water & Light Dept., 3 N. Court St., 03785, 603/747-2442, Hayden Waterhouse, supt.; 1,221 met.; no gen., pur. 10,880,490 kWh; rev. $499,375. (1922)[3]

NEW JERSEY

BUTLER, Borough of, One Ace Rd., 07405, 201/838-7200, Frank B[illegible]stone, bor. admin.; 9,100 met.; no gen.; pur. 95,211,000 kWh; rev. $9,781,658. (1942)[5]

LAVALLETTE Elec. Dept., Washington Ave., 08735, 201/793-7477, Joan Larson, elec. clk.; 2,650 met.; no gen.; pur. 32 million kWh; rev. $1,473,304. (1927)[5]

MADISON, Bor. of, Elec. Util., Hartley Dodge Memorial, Kings Road, 07940, 201/377-8000, ext. 20, Abraham Antun, fin. dir.; 5,700 met.; no gen.; pur. 98,082,000 kWh; rev. $9,925,089. (1889)*[5]

MILLTOWN Elec. Dept., 39 Washington Ave., 08850, 201/828-2100, G. R. Newman, supt.; 2,573 met.; no gen.; pur. 37,036,800 kWh; rev. $2,556,481.[3]

PARK RIDGE Elec. Dept., 53 Park Ave., 07656, 201/391-2113, Robert F. Kenney, dir. of oper.; 3,077 met.; no gen.; pur. 40 million kWh; rev. $3,242,357. (1904)*†[5]

PATERSON Municipal Utilities Authority, Traffic Operations Center, N. Barclay St., 07510, 201/881-3313, John Topalian, atty. (Authority established in 1981 to rehabilitate hydro project on Passaic River.)[5]

PEMBERTON, Borough of, Elec., 114 Hanover St., 08068, 609/894-8222, Harold Beck Sr., supt.; 510 met.; no gen.; rev. $539,262. (1921)[5]

SEASIDE HEIGHTS Borough Elec., 328 Grant Ave., 08751, 201/793-0359, Leonard Ipri, supt.; 3,200 met.; no gen.[3]

SOUTH RIVER, Borough of, 410 Whitehead Ave., Box 232, 08882-0232, 201/257-9051, Thomas H. Gallo, dir. of pub. works; 5,576 met.; no gen.; pur. 41,433,600 kWh; rev. $3,140,916. (1908)[5]

VINELAND, City of, Elec. Util., Seventh and Wood Sts., 08360, 609/691-3000, Raymond Lawson, actg. dir. of elec. util.; 16,098 met.; gen. 110,050 kW, 27,200 kW coal, 49,250 kW oil, 33,600 kW oil (comb. turbine); 221,434,600 kWh; pur. 129.734,000 kWh; rev. $24,393,764. (1900)*[5]

NEW MEXICO

AZTEC, City of, 201 W. Chaco, 87410, 505/334-9456, Rolfe Wagner, city mgr.; 2,199 met.; gen. 1,600 kW gas; pur. 20,972,670 kWh; rev. $1,045,533. (1956)[3]

FARMINGTON Elec. Util. System, Box 900, 87499, 505/327-7701, Wm. C. Lewis, elec. util. dir.; 26,680 met.; gen. 40,000 kW coal, 30,000 kW gas (steam turbine), 1,750 kW oil, 650 kW gas (combus. turbine),(standby); 200 kW hydro; 159,164,000 kWh; pur. 243,629,000 kWh, rev. $28,398,000. (1964)*†[5]

GALLUP City of, Box 1270, 87301, 505/863-6871 ext. 289, Dani Frye, city mgr.; 9,257 met.; no gen.; sales 157,023,412 kWh; rev. $12,450,144. (1941)*[5]

LOS ALAMOS County Utils., Box 30, Los Alamos, 87544, 505/662-8130, James Harder, utils. mgr.; 5,085 met.; no gen.; pur. 51,570,956 kWh; rev. $4,040,984. (1967)*[5]

RATON Pub. Service Co., Box 40, 87740, 505/445-9861, Nardi Gabriele, gen. mgr.; 3,773 met.; gen. 11,000 kW (steam); 32,087,100 kWh; pur. 3,117,484 kWh; rev. $2,668,448. (1919)*†[5]

SPRINGER, Town of, Box 488, 87747; 505/483-2682, Lloyd W. Miles, town admin.; 800 met.; no gen.; rev. $325,985.[5]

TRUTH OR CONSEQUENCES, City of, Joint Util. system, 605 Sims St., 87901, 505/894-6674, Quentin Drunzer, city mgr.; 3,248 met.; no gen.; pur. 457,669 kWh; rev. $1,698,032. (1934)[5]

NEW YORK

AKRON Mun. Elec. Util., 21 Main St., Box 180, 14001-0180, 716/542-9636, Donald J. Whiting, mayor; 1,132 met.; no gen.; pur. 36,227,800 kWh; rev. $846,356. (1903)*[5]

ANDOVER, Village of, Elec. Dept., 4 Main St., 14806, 607/478-8455, Maynard Towner, supt.; 539 met.; no gen.; pur. 5,529,200 kWh; rev. $166,239. (1913)[5]

ANGELICA, Village of, 14709, 716/466-7431, Shirley Ross, village clk.; 592 met.; no gen.; sales 6,350,000 kWh, rev. $155,676. (1930)[2]

ARCADE Mun. Elec., 17 Church St., 14009, Larry A. Kilburn, supt. pub. wks.; 3,030 met.; no gen.; pur. 114,469,511 kWh; rev. $1,741,234. (1909)*†[5]

BATH Elec., Gas & Water Systems, Drawer 310, 14810, 607/776-3072, W.N. Wrinkle, dir.; no gen.; pur. 60,581,800 kWh; rev. $1,607,926. (1915)*[5]

BERGEN Mun. Elec., 16 N. Lake St., 14416, 716/494-1513, Benjamin Zuber, mayor;, 506 met.; no gen.; pur. 13,802,600 kWh; rev. $420,772. (1909)*†[5]

BOONVILLE Mun. Comm. of, Box 59, 13309, 315/942-4461, John W. Gilbert, supt.; 2,333 met.; no gen.; pur. 47,852,300 kWh; rev. $1,438,905. (1903)*[4]

BROCTON Village of, 34 W. Main St., 14716, 716/792-4160, Rick Manzella, lineman; 676 met.; no gen.; pur. 10,388,800 kWh; rev. $189,060. (1904)*[5]

CASTILE, Mun. Elec. Sys., 51 N. Main St., Box 515, 14427, 716/493-5340, Lynn D. Washburn, supt.; 535 met.; no gen.; pur. 6,289,200 kWh; rev. $176,138. (1903)[5]

CHURCHVILLE Village of, 9 E. Buffalo St., 14428, 716/293-3720, Ronald J. Trinkl, village supt., 656 met.; no gen.; pur. 12,847,800 kWh; rev. $386,130. (1921)*[5]

ENDICOTT Mun. Light Plant, Municipal Plaza, 1009 E. Main St., 13760, 607/754-2450, Clark Vallequette, exec. sec'y; 2,849 met.; no gen.; pur. 42,240,835 kWh; rev. $1,019,334. (1906)*†[3]

FAIRPORT Mun. Comm., Box 500, 14450,716/223-9500, Robert N. Vaisey, gen. mgr., 11,349 met.; no gen.; pur. 278,015,000 kWh; rev. $6,928,294. (1901)*†[4]

FRANKFORT Mun. Elec., 107 W. Main St., 13340, 315/894-8811, John S. Migliore, supt.; 1,571 met.; no gen.; pur. 14,819,000 kWh; rev. $373,378. (1960)[3]

FREEPORT Mun. Elec. Util., 46 N. Ocean Ave., 11520, 516/378-4000, William A. Cominos, actg. supt. elec. utils., 13,941 met.; gen. 50,580 kW; 18,180 kW oil (gas combus. turbine); 32,400 kW oil (int. combus. eng.) 7,261,030 kWh; pur. 192,112,000 kWh; rev. $11,679,764. (1896)*[5]

GOUVERNEUR, Village of, 33 Clinton St., 13642, 315/287-0110, Ronald Cochrane, supt.; gen. 160 kW hydro. (1923)[5]

GREENE, Village of, Elec. Dept., Box 207, 13778, Harvey Stalker, elec. supt.; 1,124 met.; no gen.; pur. 26,429,000 kWh; rev. $835,914[4]

GREEN ISLAND, Village of, 20 Clinton St., 12183, 518/273-2201, John W. Demarest, supt.; 1,203 met.; no gen.; pur. 9,024,200 kWh; rev. $313,404. (1895)[5]

GREENPORT Mun. Elec. Light Plant, 236 Third St., 11944, 516/477-1748, James I. Monsell, supt.; 1,668 met.; gen. 6,100 kW dual-fuel; 357,000 kWh; pur. 17,866,000 kWh.; rev. $1,123,353. (1899)*[3]

GROTON, Mun. Elec., 108 E. Cort, 13073, 607/898-3001, Frank Satterly, dir. of utils.; 806 met.; no gen.; pur. 15,895,775 kWh; rev. $429,857. (1933)[5]

HAMILTON Mun. Power System, Village Office, 3 Broad St.,Box 119, 13346, 315/824-1111, John Rathbone, village engr.; 1,407 met.; no gen.; pur. 42,320,000 kWh; rev. 1,522,857. (1895)*†[5]

HOLLEY Mun. Elec. Dept., 72 Public Square, 14470, 716/638-6367, Raymond E. Neale, supt.; 870 met.; no gen.; pur. 19,034,558 kWh; $452,606. (1889)[5]

ILION Bd. of Light Comm., 49 Morgan St., 13357, 315/895-7749, Kevin J. Manfreda, supt.; 3,845 met.; no gen.; pur. 58,612,640 kWh; rev. $1,135,045. (1901)*[5]

JAMESTOWN Bd. of Pub. Util.,Box 700, 14702, 716/661-2385, James S. Pullan, gen. mgr., 19,655 met.; gen. 50,000 kW coal, steam, 228,126,970 kWh; pur. 220,613,560 kWh; rev. $10,339,555. (1891)*[4]

LAKE PLACID Mun. Elec. Dept., 301 Main St., 12946, 518/523-2021, Charles White, supt.; 2,277 met.; no gen.; pur. 90,745,600 kWh; rev. $3,029,371. (1906)*[5]

LITTLE VALLEY, Village of, Mun. Elec. Dept., Municipal Bldg., 14755, 716/938-9322, LeRoy J. Hamilton, elec. dept. supvr.; 1,141 met.; no gen.; pur. 17,223,380 kWh; rev. $470,849. (1896)*[5]

MARATHON, Village of, Lighting Plant, 18 Tannery St., 13803, 607/849-6795, David K. Light, mayor; 750 met.; no gen.; pur. 15,047,000 kWh; rev. $414,055 (1901)[3]

MASSENA Elec. Dept., 71 E. Hatfield St., Box 209, 13662, 315/764-0253, Clifford G. Engstrom, gen. mgr.; 8,015 met.; no gen.; pur. 104,482,574 kWh; rev. $4,982,180. (1981)*†[5]

MAYVILLE Elec. Light Dept., Box 188, 14757, 716/753-2125, Ray Frost, supt. (1896)*[4]

MOHAWK Mun. Comm., 28 Columbia St., 13407, 315/866-4170, William D. Wainwright, util. supt., 1,244 met.; no gen.; pur. 19,147,300 kWh; rev. $590,278. (1904)*[5]

NEW YORK POWER AUTHORITY, 10 Columbus Circle, New York, N.Y., 10019, 212/397-6200, Leroy W. Sinclair, pres.; 152 met.; gen. 6,806,000 kW, 825,000 kW oil (steam turbine), 4,206,000 kW hydro, 1,775,000 kW nuclear, 35 million kWh; pur. 10 billion kWh; rev. $1,220,219,000. (1931)*†[5]

PENN YAN Mun. Bd., 2 Maiden Lane, 14527, 315/536-3374, Wesley G. Ryder, utils. mgr.; 2,750 met.; no gen.; sales 45,175,941 kWh; rev. $1,362,259. (1905)*[5]

PHILADELPHIA Mun. Elec. System, 56 Main St., Box 70, 13673, 315/642-3452, Wayne Huntress, mayor; 392 met.; no gen.; pur. 6,893,800 kWh; rev. $205,588. (1906)[5]

PLATTSBURGH Mun. Lighting Dept., 6 Miller St., 12901, 518/563-2200, George D. Reich, mgr.; 8,122 met.; no gen.; pur. 467,305,069 kWh; rev. $9,227,195. (1941)*[5]

RICHMONDVILLE Power & Light, 22 E. Main St., 12149, 518/294-7700, Bruce Stevens, supt.; 816 met.; no gen.; pur. 9,089,000 kWh; rev. $301,264. (1918)[5]

ROCKVILLE CENTRE, Village of, Inc., Box 950, 110 Maple Ave., 11571, 516/766-0300, Ext. 211, Patrick J. Hester, supt. of utils.; 10,029 met.; gen. 31,400 kW, 8,850 kW oil (eng.), 22,650 kW dual-fuel, 35,764,000 kWh; pur. 118,794,000 kWh; rev. $8,830,400. (1898)*[4]

ROUSES POINT, Village of, Box 185 Lake St., 12979, 518/297-5502, Terry Dunn, village adm.; 1,063 met.; no gen.; pur. 56,333,102 kWh; rev. $760,607. (1903)*[3]

SALAMANCA Water & Light Dept., 225 Wildwood Ave., 14779, 716/945-3130, James M. Brundage, gen. mgr.; 3,236 met.; no gen.; pur. 48,792,200 kWh; rev. $1,262,906. (1913)[3]

SHERBURNE, Village of, Mun. Elec., 15 W. State St., 13460, 607/674-2300, Edward F. Adwards, mayor; 1,703 met.; no gen.; pur. 38,060,000 kWh; rev. $781,040. (1907)*[3]

SHERRILL Power and Light, 601 Sherrill Rd., 13461, 315/363-0780, Lawrence A. Pickard, mgr.; 1,449 met.; no gen.; pur. 54,749,000 kWh; rev. $1,080,415. (1977)*[5]

SILVER SPRINGS, Village of, Mun. Elec., 43 N. Main St., 14550, 716/493-2500, Robert E. Kupp, supt. pub. wks:; 371 met.; no gen.; sales 3,049,785 kWh; rev. $123,103. (1912)[5]

SKANEATELES, Village of, Electric, 46 E. Genesee St., 13152, 315/685-5628, James A. Buff, supt.; 1,275 met.; no gen.; pur. 22,283,200 kWh; rev. $678,299. (1900)*†[5]

SOLVAY, Village of, 3143 Milton Ave., 13209, 315/468-6229, M. V. Raman, mgr.; 4,346 met.; no gen.; pur. 349,025,000 kWh; rev. $4,666,565. (1896)*[4]

SPENCERPORT, Village of, 27 West Ave., 14559, 716/352-4771, James C. Bleier, supt.; 1,997 met.; no gen.; pur. 47,904,300 kWh; rev. $932,261. (1916)*[5]

SPRINGVILLE, Village of, Elec., 5 W. Main, 14141, 716/592-4936, John Lipoff, elec. supt.; 2,064 met.; gen. 520 kW hydro, 2,858,130 kWh; pur. 39,967,714 kWh; rev. $771,789. (1895)[3]

THERESA, Mun. Light Comm., 217 Main St., 13691, 315/628-4425, Thomas O'Driscoll, mayor; 376 met.; no gen.; pur. 5,357,800 kWh; rev. $158,831. (1906)*[3]

TUPPER LAKE Mun. Elec. System, 53 Park St., 12986, 518/359-3341, Donald T. Trudeau, elec. supt.; 2,777 met.; no gen.; pur. 60,568,000 kWh; rev. $2,115,084. (1903)[*5]

WATERTOWN, City of, Elec. Dept., 245 Washington St., Room 305, Municipal Bldg., 13601, 315/785-7740, Willard S. Abel, city engr.; 57 met. gen. 5,400 kW hydro, 27,615,000 kWh; pur. 2,385,000 kWh; rev. $494,000. (1924)[5]

WATKINS GLEN, Village of, 303 N. Franklin St., 14891, 607/535-2736, John B. Doolittle, mgr.; 1,250 met.; no gen.; pur. 32,986,400 kWh; rev. $755,808. (1918)[5]

WELLSVILLE, Village of, Water & Light Dept., 156 N. Main St , 14895, 716/593-4000, Donald MacFarquhar, supt.; 2,544 met.; no gen.; pur. 48,012,300 kWh; rev. $849,518. (1915)[*3]

WESTFIELD, Village of, 23 Elm St., 14787, 716/326-2145, Geoffrey Graeff, elec. supt.; 2,680 met.; no gen.; pur. 63,031,900 kWh; rev. $1,241,139. (1892)[*5]

NORTH CAROLINA

ALBEMARLE, City of, Elec. Dist. System, Box 190, 28002-0190, 704/982-0131, D. Lendell Smith Jr., dir. pub. wks.; 9,335 met.; no gen.; pur. 222,231,421 kWh; rev. $11,283,443. (1910)[*4]

APEX, Town of, Box 250, 27502, 919/362-8663, Steven Stewart, town admin.; pub. wks.; 1,790 met.; no gen.; sales 28,132,671 kWh; rev. $1,819,021. (1916)[*4]

AYDEN, Town of, Box 217, 28513, 919/746-4152, Jordan C. Horne, dir. of utils.; 3,342 met.; no gen.; sales 41,418,520 kWh, rev. $3,066,884. (1915)[*4]

BELHAVEN, Town of, Box 220, 27810, 919/943-3105, Ray Cotterman, elec. supt.; 1,135 met.; no gen.; pur. 16,475,503 kWh; rev. $1,231,467. (est. 1920)[*5]

BENSON, Town of, Box 157, 27504, 919/894-4953, Steven L. Harrell, town admin.; 1,424 met.; no gen.; sales 24,903,991 kWh; rev. $1,697,667. (1913)[*4]

BLACK CREEK, Town of, Box 8, 27813, 919/243-6439, Christine Lamm, town clerk; 522 met.; no gen.; sales 6,184,262 kWh; rev. $567,570. (1922)[*4]

BOSTIC Town of, Box 158, 28018, 704/245-5108, Charles M. Hoyle, elect., 146 met.; no gen.; pur. 2,517,034 kWh; rev. $105,565. (1920)[*4]

CHERRYVILLE, City of, 116 S. Mountain St., 28021, 704/435-4181, Jean Beam, 2,162 met.; no gen.; sales 41,765,627 kWh; rev. $2,274,466. (1906)[*4]

CLAYTON, Town of, Lighting Dept., 231 E. Second St., Box 777, 27520, 919/553-5866, Edward Park, elec. supt.; 2,040 met.; no gen.; pur. 33,113,000 kWh; rev. $1,914,096. (1925)[*3]

CONCORD Bd. of Light & Water Comm., Box 567, 28025, 704/786-6161, Don T. Howell, dir. util.; 11,824 met.; no gen.; pur. 239,612,351 kWh; rev. $11,132,158. (1901)[*†3]

CORNELIUS, Town of, Box 66, 28031, 704/892-6031, Kermit W. Ballard, dir. util., 800 met.; no gen.[*4]

DALLAS, Town of, 131 N. Gaston St., 28034, 704/922-3176, Scott Braddy, supt.; 2,619 met.; no gen.; pur. 39,840,120 million kWh; rev. $1,986,886. (1925)[5]

DREXEL, Town of, 202 Church St., Box 188, 28619, 704/437-7421, Morris Baker, town mgr.; 981 met.; no gen.; pur. 1,676,945 kWh; rev. $774,740. (1927)[*4]

EDENTON, Town of, Utils., S. Broad St., Box 300, 27932, 919/482-2155, William Crummey, dir. pub. utils.; 3,198 met.; no gen.; rev. $4,680,846. (1900)[*4]

ELIZABETH CITY, City of, Box 347, 27909, 919/338-3981, Tommy M. Combs, city mgr.; 8,399 met.; no gen.; pur. 172,980,000 kWh; rev. $10,477,098. (1923)[*3]

ENFIELD Elec. Utils., Box 695, 27823, 919/445-3146, Joseph N. Adkins, util. dir.; 1,650 met.; no gen.; pur. 21.7 million kWh, rev. $1,719,776.[4]

FARMVILLE, Town of, 121 Main St., 27828, 919/753-3021, James A. Wooten Jr., dir. of utils.; 2,310 met.; sales 47,973,973 kWh; rev. $3,207,775. (1915)[*4]

FAYETTEVILLE Pub. Wks. Comm., 508 Person St., Box 1089, 28302, 919/483-1382, Tim Wood, mgr.; 53,996 met.; gen. 200,000 kW dual-fuel, (gas turbine); 50,205,920 kWh; pur. 1,336,386,000 kWh; rev. $76,744,683. (1905)[*5]

FOREST CITY Elec. Dept. 12 N. Powell St., 28043, 704/245-0148, Herb Toms, dir. pub. wks.; 4,100 met.; no gen.[5]

FOUNTAIN Town of, Box 134, 27829, 919/749-2881, J.D. Barker, dir.; 335 met.; no gen.; pur. 4,275,600 kWh; rev. $280,070. (approx. 1936).[*4]

FREMONT, Town of, Box 818, 27830, 919/242-5151, Red Radford, electrician; 909 met.; no gen.; pur. 13,012,746 kWh; rev. $862,058. (1924)[*5]

GASTONIA, City of, 1300 N. Broad St., 28052, 704/866-6823, H. Michael Taylor, no gen.; pur. 480,678,430 kWh; rev. $22,841,921. (1900)[*5]

GRANITE FALLS, Town of, Drawer 10, 28630, 704/396-3131, Dewey J. Cook, dir. pub. utils.; 1,425 met.; no gen.; sales 24,690,595 kWh; rev. $1,886,116.[*4]

GREENVILLE Utils. Comm., Box 1847, 27835, 919/752-7166, Malcolm A. Green, gen. mgr.; 27,232 met.; no gen.; sales 699,450,379 kWh; rev. $42,367,197. (1905)[*5]

HAMILTON, Town of, Box 249, 27840, 919/798-2001, Kathy Moore, town clerk; 261 met.; no gen.; sales 2,830,972 kWh; rev. $217,940. (1922)[*4]

HERTFORD, Town of, Box 32, 27944, 919/426-5311, W. D. Cox, city mgr.; 1,317 met.; no gen.; sales 14,385,147 kWh; rev. $1,133,667. (1918)[*4]

HIGHLANDS Mun. Plant, Box 460, 28741, 704/526-2118, Arnold Keener, supt.; 2,000 met.; pur. 23,000,000 kWh; rev. $800,000. (1926)[4]

HIGH POINT, City of, Box 230, 27261, 919/887-2511, Lloyd Shank Jr., dir. elec. util.; 26,287 met.; no gen.; sales 576,650,000 kWh; rev. $35,562,041. (1892)[*†5]

HOBGOOD Town of, Box 217, 27843, 919/826-4573, S.G. Burnett, elec. commissioner; 310 met.; no gen.; sales 3,391,287 kWh; rev. $269,939. (1973)[*5]

HOOKERTON Town of, Box 296, 28538, 919/747-3816, Gene C. Hill, mayor; 334 met.; no gen.; sales 4,604,438 kWh; rev. $348,083.[*4]

HUNTERSVILLE, Town of, Box 398, 28078, 704/875-6541, Carl J. Horton, town mgr.; 680 met.; no gen.; sales 15,035,487 kWh; rev. $913,844.[*5]

KINGS MOUNTAIN Mun. Elec. Dept., Box 429, 28086, 704/739-2563, John Henry Moss, mayor; 3,451 met.; no gen.; sales 71,882,975 kWh; rev. $4,425,243. (1903)[5]

KINSTON, City of, 207 E. King St., 28501, 919/527-2111, Stephen W. Rauper, city mgr.; 13,797 met.; no gen.; pur. 325,726,496 kWh; rev. $19,082,441.[*4]

LA GRANGE, Town of, Box 368, 28551, 919/566-3186, E. B. Walters, util. dir.; 1,379 met.; no gen.; sales 19,292,420 kWh; rev. $1,335,272[*5]

LANDIS Light & Power Dept., 136 N. Central Ave., Box 8165, 28088, 704/857-2411, Gary E. Miller, dir. util.; 2,260 met.; no gen.[*5]

LAURINBURG, City of, 28352, 919/276-2364, Harold Smith, public works admin.; 4,527 met.; no gen.; sales 81,086,746 kWh; rev. $4,760,206. (1925)[*4]

LEXINGTON, City of, 28 W. Center St., 27292, 704/246-2680, Bruce L. Kirk, supt.; 14,489 met.; no gen.; sales 317,746,880 kWh; rev. $17,393,107. (1902)[*5]

LINCOLNTON, City of, Light & Power Dept., Box 617, 28092, 704/732-2281, David E. Lowe, city mgr.; 2,211 met.; no gen.; rev. $1,608,871. (1900)[*3]

LOUISBURG, Town of, 110 W. Nash St., 27549, 919/496-3406, C.L. Gobble, town admin.; 1,750 met.; no gen.; pur. 46,151,645 kWh; rev. $2,002,727.[*5]

LUCAMA Light Plant, Box 127, 27851, 919/239-0560, Donnie Barnes, dir. util.; 770 met.[*4]

LUMBERTON, City of, 420 Halsey St., 28358, 919/738-2255, Wayne Hedgpeth, elec. util. dir.; 8,342 met.; no gen.; sales 203,057,086 kWh; rev. $14,581,032. (1915)[*5]

MACCLESFIELD, Town of, Elec. Dept., Box 185, 27852, 919/827-4823, Wiley Ford, dir. of pub. works; 300 met.; rev. $200,000. (1928)[*5]

MAIDEN, Town of, Box 125, 28650, 704/428-8178, David R. Walker, town mgr.; 844 met.; no gen.; sales 34,413,328 kWh; rev. $1,733,198. (1928)[*4]

MONROE, City of, Box 69, 28110, 704/289-8557, J. E. Hinkel, city mgr.; 6,149 met.; no gen.; sales 283,577,215 kWh.; rev. $13,659,869.(1898)[*4]

MORGANTON, City of, Drawer 430, 28655, Douglas O. Bean, city mgr.; 6,250 met.; no gen.; pur. 17,177,885 kWh; rev. $9,480,310. (1908)[*†5]

MURPHY, Town of, Elec. Power Bd., Box 130, 28906, 704/837-2211, John Carringer, mgr.; 2,624 met.; no gen.; pur. 103,956,840 kWh; rev. $198,492. (TVA power distributor) (1953)[3]

NEW BERN, City of, Box 1129, 28560, 919/633-5161, Henry A.

Mahlmann, util., dir.; 12,426 met.; no gen.; sales 275,101,000 kWh; rev. $17,561,000. (1906)*[5]

NEW RIVER LIGHT & POWER CO., Winkler's Creek Rd., Box 1130, Boone, 28607, 704/264-3671, Donald R. Austin, gen. mgr.; 5,503 met.; no gen.; pur. 141,304,800 kWh; rev. $7,089,496. (1915)*[5]

NEWTON, City of, Drawer 550, 28658, 704/464-1282, Jack Mathews, dir. pub. wks.; 3,700 met.; no gen.; sales 62,134,590 kWh; rev. $3,624,757.*[4]

OAK CITY Mun. Utils., Box 298, 27857, 919/798-7721, Laurie Joyner, town clk.; 238 met.; no gen.; pur. 2,833,700 kWh; rev. $171,853.[5]

PIKEVILLE, Town of, Box 9, 27863, 919/242-5126, Robert W. Davy, 553 met.; no gen.; sales 5,597,214 kWh; rev. $492,404. (1934)*[5]

PINETOPS, Town of, Drawer C., 27864, 919/827-4435, Milton Carlton, town clerk; 715 met.; no gen.; pur. 14,324,923 kWh; rev. $1,028,577. (1927)*[4]

PINEVILLE, Elec., 200 Dover St., 28134, 704/889-2291, Joe Baker, town mgr.; 750 met.; no gen.; pur. 14,695,371 kWh; rev. $988,650. (1934)*[5]

RED SPRINGS, Town of, 217 S. Main St., 28377, 919/843-5241, Paul Morrison, elec., supt.; 1,577 met.; no gen.; pur. 25,779,774 kWh; rev. $1,107,411*[3]

ROBERSONVILLE, Town of, Box 487, 27871, 919/795-3511, James S. Simpson; 1,103 met.; no gen.; sales 21,792,292 kWh; rev. $1,450,100. (1935).*[5]

ROCKY MOUNT, City of, One Government Plaza, Drawer 1180, 27801, 919/972-1111, William H. Batchelor, city mgr.; 24,646 met.; no gen.; pur. 628,734,904 kWh; rev. $38,417,774. (1902)*[5]

SCOTLAND NECK, Town of, Box 537, 27874, 919/826-3712, Sidney R. Williams, dir. of utils.; 1,574 met.; no gen.; pur. 25,878,280 kWh; rev. $1,989,373.*[5]

SELMA, Town of, 100 N. Raiford St., 27576, 919/965-9841, C. Fred Murray, elec. sup.; 1,985 met.; no gen.; sales 33,460,359 kWh; rev. $2,370,600.*[4]

SHARPSBURG, Town of, Box 305, 27878, 919/446-9441, Wayne Cochran, town supt.; 971 met.; no gen.; pur. 13,041,000 kWh; rev. $851,616. (1920)*[5]

SHELBY, City of, Box 207, 28150, 704/482-7367, Jack Robinson, supt.; 7,246 met.; no gen.; sales 148,962,530 kWh; rev. $8,582,833. (1913)*[5]

SMITHFIELD, Town of, Box 761, 27577, 919/934-2116, Tony Robertson, town mgr.; 3,925 met.; no gen.; sales 84,157,553 kWh; rev. $5,676,989.*[5]

SOUTHPORT, City of, 201 E. Moore St., 28461, 919/457-6911, James Splawn, util. dir.; 1,725 met.; no gen.; pur. 32,672,437 kWh; rev. $2,283,921. (1910)*[5]

STANTONSBURG, Town of, Box 10, 27883, 919/238-3608, Roland L. Gardner, town mgr.; 953 met.; no gen.; pur. 13,030,126 kWh; rev. $1,080,618. (1928)*[4]

STATESVILLE, City of, 301 S. Center St., Box 1111, 28677, 704/873-7729, Clyde E. Bagwell, dir. util.; 10,156 met.; no gen.; sales 259,351,870 kWh; rev. $15,086,072. (1889)*[5]

TARBORO, Town of, Box 220, 27886, 919/823-8121, Douglas Hathaway, dir. of elec. utils.; 5,049 met.; no gen.; sales 185,801,262 kWh; rev. $11,800,945. (1898)*[4]

WAKE FOREST, Town of, 400 E. Elm St., 27587, 919/556-2024, Jerry Walters, town adm.; 3,445 met.; no gen.; sales 27,342,240 kWh; rev. $1,345,643. (1915)*[4]

WALSTONBURG, Town of, Box 126, 27888, 919/753-5667, Peggy D. Gay, town clerk; no gen.; pur. 1,876,540 kWh; rev. $134,373. (1932)*[4]

WASHINGTON, City of, 102 E. 2nd St., Box 1988, 27889, 919/946-1033, Ralph A. Clark, city mgr.; 9,214 met.; no gen.; sales 200,576,084 kWh; rev. $11,823,232. (1910)*[4]

WAYNESVILLE, Town of, Elec. Dept.; 106 S. Main St., 28786, 704/456-3515, William M. Green, dir. of finance; 2,261 met.; no gen.; pur. 45,578,000 kWh; rev. $2,853,892.[5]

WILSON, City of, Box 10, 27893, 919/291-8111, Charles W. Whitley, 23,524 met.; no gen.; pur. 743,728,952 kWh; rev. $43,125,849. (1892)*[5]

WINDSOR, Town of, Box 508, 27983, 919/794-2331, David Overton, town adm.; 1,499 met.; no gen.; pur. 28,756,000 kWh; rev. $2,129,000. (1920)*[5]

WINTERVILLE, Town of, Box 431, 28590, 919/756-2221, Harvey Lee Joyner, supt.; 2,020 met.; no gen.; pur. 16,399,560 kWh; rev. $869,222. (1890)*[4]

NORTH DAKOTA

CAVALIER City Light & Water Plant, Box 156, 58220,701/265-8668, Steven Kruse, pub. works dir.; 825 met.; no gen.; sales 16,000,000 kWh; rev. $542,000. (1928)*†[5]

GRAFTON, City of, Box 547, 58237, 701/352-2180, Darrell M. Nelson, dir. of utils.; 2,175 met.; no gen.; pur 36,908,380 kWh; rev. $1,529,607. (1890)*[5]

HILLSBORO, City of, Utilities, Box J, 58045, 701/436-4620, James Brekke, city auditor; 1,031 met.; no gen.; pur. 20,307,744 kWh; rev. $815,885.*†[5]

HOPE City Light & Power, 58046, 701/945-2794, Mark Lemley, aldr.; 130 met.; no gen.; pur. 8,595,398 kWh; rev. $120,552.[3]

LAKOTA Mun. Utils., Box 505, 58344, 701/247-2454, Arlene Clauson, mayor; 494 met.; no gen.; pur. 13,160,329 kWh; rev. $438,729. (1930)*†[5]

MADDOCK, Municipal Power, 58348, 701/438-2335, Odell A. Hakanson, util. supt.; 388 met.; no gen.; pur. 5,424,400 kWh; rev. $354,925. (1920s)*[5]

NORTHWOOD, Mun. Light Plant, 12 North Raymond, 58267, 701/587-6291, Arthur G. Bilden, Mayor; 607 met.; gen. 1,700 kW oil (combus. eng.), pur. 9,947,000 kWh; rev. $702,145. (1912)*†[5]

PARK RIVER Mun. Light Plant, 340 Prospect Ave., 58270, 701/284-6399, Russell Lien, supt.; 850 met.; gen. 883-kW oil-fired eng. (standby); pur. 19,891,354 kWh; rev. $640,213. (1901)[5]

SHARON Light & Power Dept., Box 66, 58277, 701/524-2377; Tom Strand, city auditor; 100 met.; no gen.; pur. 400,000 kWh; rev. $50,000.*[4]

STANTON Mun. Power, Box 156, 58571, 701/745-3202, Marvin Leer, mayor; 275 met.; no gen.; pur. 5,000,000 kWh; rev. $428,687. (1974)[3]

VALLEY CITY Mun. Utils., 254 2nd Ave. NE, Box 240, 58072, 701/845-0380, Leif Ravnaas, supt.; 3,774 met.; gen. 2,720 kW oil-fired eng.; pur. 78,370,200 kWh; rev. $1,874,290. (1891)*†[3]

OHIO

AMHERST, City of, 647 Park Ave., 44001, 216/988-4224, Donald Woodings, supt.; 4,500 met.; pur. 2,800,000 kWh; rev. $3,576,763.[5]

ARCADIA Electric Dept., Box 235, 44804, 419/894-6009, David Noel, adm.; 275 met.; no gen.; pur. 13,500,000 kWh; rev. $250,000.[5]

ARCANUM Water & Light Plant, 104 W. South St., 45304, 513/692-8565, Michael Clark, supt.; 1,288 met.; no gen.; pur. 18.8 million kWh; rev. $1,004,000. (1905)[5]

BEACH CITY, Mun. Elec., Bd. of Pub. Affairs, 301 N. Church St., 44608-0328, 216/756-2011, Robert Raff, supt.; 725 met.; no gen.; pur. 6,544,800 kWh; rev. $383,744. (1919)*[5]

BETHEL Bd. of Pub. Affairs, 235 W. Plane St., 45106, 513/734-2243, Dennis Barton, supt.: 1,328 met.; no gen.; pur. 19,451,895 kWh; rev. $1,156,008. (1904)[5]

BLANCHESTER Bd. of Pub. Affairs, Box 158, 45107, 513/783-2141, John Sornberger, dir. of util.; 1,800 met.; no gen.; pur. 42,065,108 kWh; rev. $2,127,983. (1895)[5]

BLOOMDALE Mun., 102 Maple St., Box 186, 44817, 419/454-2941, Raymon A. Taylor, village admr.; 300 met.; no gen.; pur. 2,702,400 kWh; rev. $128,501.*[3]

BOWLING GREEN Municipal Utils., 304 N. Church St., Box 388, 43402, 419/354-6253, Lyle B. Wright, dir. of utils.; 9,797 met.; no gen.; pur. 224,543,235 kWh; rev. $11,002,942. (1942)*†[5]

BRADNER Light and Water Plant, 130 N. Main, Box 516, 43406, 416/288-2773, Robert Butterfield, village elec.; 518 met.; no gen.; pur. 5,409,200 kWh.[4]

BREWSTER Municipal Electric, 310 S. Wabash Ave., 44613, 216/767-3312, William Sessor, elec. supt. 933 met.; no gen.; pur. 19,603,024 kWh; rev $1,101,639. (1912)*[5]

BRYAN Mun. Light & Water Utils., 841 E. Edgerton St., 43506, 419/636-4232, John P.Curtin, dir. of util.; 4,038 met.; gen.20,500 kW gas (comb. turbine), 2,500 kW oil (eng.), 410,500 kWh; pur. 147,114,072 kWh; rev. $7,597,843. (1898)*[5]

CAREY, Village of, Mun. Elec., 127 N. Vance St., 43316, 419/396-6130, Ernest Zmyslinski, village admr.; 1,606 met.; no gen.; sales

73,123,000 kWh; rev. $2,960,000. (1909)*[5]

CELINA Mun. Utils., 426 W. Market St., 45822, 419/586-6464, Thomas A. Schwartz, dir. of pub. serv. & safety; 5,919 met.; no gen.; pur. 122,207,323 kWh; rev. $5,973,360. (1900)*[5]

CLEVELAND Public Power, 1201 Lakeside Ave., 44114, 216/664-3922, George S. Pofok, comm.; 48,310 met.; gen. 48,750 kW dual-fuel (comb. turbine), 3,704,250 kWh; pur. 552,724,440 kWh; rev. $40,539,998. (1906)*[5]

COLUMBIANA, Village of, 28 W. Friend St., 44408, 216/482-2173, A. E. Wardingley, village mgr.; 2,406 met.; no gen.; pur. 34,594,296 kWh; rev. $1,952,000.[5]

COLUMBUS, City of, Div. of Electricity, 90 W. Broad St., 43215, 614/222-8371, Henry A. Bell, admin.; 7,791 met.; gen. 90,000 kW waste (steam turbine), 339,760,000 kWh; pur. 88,097,700 kWh; rev. $20,399,202. (1898)*†[5]

CUSTAR, Bd. of Pub. Affairs, 9063 High St.,43511, 419/669-3537, Jerry Clink, pres.; 113 met.; no gen.; rev. $117,578.[5]

CUYAHOGA FALLS Elec. System, 2550 Bailey Rd., 44221, 216/923-9921, C. O. Stout, supt.; 18,714 met.; no gen. pur. 230,736,000 kWh; rev. $13,300,342. (1899)*[5]

CYGNET Mun. Light Dept., Box 406, 43413, 419/655-2536, Tom Strickland, supt.; 258 met.; no gen.; pur. 2.5 million kWh; rev. $120,000. (1916)*[5]

DESHLER Mun. Utils., City Building, East North St., 43516, 419/278-1831, John S. Monteith, supt. of utils.; 889 met ; no gen.; pur. 14,519,000 kWh; rev. $683,029. (1916)*[3]

DOVER Mun. Light & Power, E. Third St., 44622, 216/343-7725, Paul Wilson, dist. supt.; 6,643 met.; gen. 30,000 kW coal (steam turbine), 2,665 kW oil (steam turbine); 62,961,400 kWh; pur. 33,646,000 kWh; rev. $4,132,143. (1900)[4]

EDGERTON Utils., 101 S. Michigan, Box 608, 43517, 419/298-2912 or 2722, Dale A. Mathys, village admin.; 756 met.; no gen.; pur. 10,662,140 kWh; rev. $702,534. (1937)*[3]

ELDORADO Light & Water, 200 N. Main St., 45321, 513/273-3141, Fred Wheeler, supt.; 236 met.; no gen.; pur. 3 milllion kWh. (1940)[5]

ELMORE, Village of, Bd. of Pub. Affairs, 340 Clinton St., 43416, 419/862-3454, Merle Harder, village supt.; 733 met.; no gen.; sales 5,546,250 kWh; rev. $413,180. (1911)[5]

GALION Mun. Light & Power, 700 Primrose, 44833, 419/468-5520, G. W. Butterfield, supt.; 6,238 met.; no gen.; pur. 95,268,188 kWh; rev. $5,650,330. (early 1900s)*[3]

GENOA Utils. Dept., 601 E. 6th St., 43430, 419/855-8419, William Bauer, supt. of utils.; 890 met.; no gen.; pur. 105,390 kWh; rev. $756,763. (1925)[5]

GEORGETOWN Utils., 301 S. Main St., 45121, 513/378-6395, Milford Fisher, village admin.; 1,700 met.; no gen.; pur. 27,839,175 kWh.; rev. $1,532,906.[5]

GLOUSTER Water & Elec. Dept., 16 Front St., 45732, 614/767-3497, Delbert Skinner, supt.; 1,009 met.; no gen.; pur. 7,410,000 kWh; rev. $528,793. (1924)[5]

GRAFTON, Village Elec. Util., 1009 Chestnut St., 44044, 216/926-2401 Allen Bartlett, village admin.; 881 met.; no gen.; pur. 12,526,155 kWh; rev. $777,165.[5]

GREENWICH Mun. Water & Light, 47 Main St., 44837, 419/752-4725, Mike King, admin.; 609 met.; no gen.; pur. 9,542,800 kWh.; rev. $458,525.[5]

HAMERSVILLE Bd. of Pub. Affairs, Box 146, 45130, 513/379-1716, Kay Elliott, clerk; 265 met.[5]

HAMILTON Pub. Utils., 20 High St., 45011, 513/868-5907, E. Leon Daggett, dir. of utils.; 25,277 met.; gen. 83,000 kW coal, 19,000 kW gas (steam turbine), 16,000 kW dual-fuel, (combus. turbine), 1,000 kW hydro; 211,813,638 kWh; pur. 222,896,000 kWh; rev. $24 534,000. (1929)*[5]

HASKINS Mun. Light & Power, 101 Mt. Church St.,43525, 419/823-5911, Frank Enright, line supvr.; 300 met.; no gen.; pur. 2,260,867 kWh; rev. $151,593.[5]

HUBBARD, City of, Mun. Light & Power System, 13 W. Liberty St., 44425, 216/534-3054, Robert Randall, utils. supt.; 3,309 met.; no gen.; pur. 51,081,730 kWh; rev. $2,612,515.*[3]

HUDSON,, Viilage of, Elec. Dept., 27 E. Main, 44236, 216/650-1052, W.F. Jacoby, supt.; 3,871 met.; no gen.; pur. 79,308,000 kWh; rev. $5,474,749. (1911)[5]

JACKSON Mun. Elec. Light System, Broadway, 45640, 614/286-3931, William McManis, 3,698 met.; no gen.; pur. 37,258,193 kWh; rev. $2,489.158. (1890)[5]

JACKSON CENTER Municipal, 122 E. Pike, Box 2, 45334, 513/596-5440, Richard Sailor, village adm.; 568 met.; no gen.; pur. 14,286,574 kWh; rev. $986,436. (1920)*[5]

LAKEVIEW Water & Light, 130 N. Main St., Box 197, 43331, 513/843-2851, Malonya M. Richardson, pres., bd. of pub. affairs; 920 met.; no gen.; pur. 6.7 million kWh; rev. $499,260. (1912)[5]

LEBANON, City of, City Bldg., 45036, 513/932-3060, Robert Newton, supt. elec. div.; 4,837 met.; gen. 6,000 kW oil (combus. turbine), 14,700 kW dual-fuel (eng.); 152,600 kWh; pur. 88,402,180 kWh; rev. $5,151,442. (1898)*[5]

LODI Power & Light, 108 Ainsworth St., 44254, 216/948-1099, Carl Zdelar, supt.; 1,640 met.; no gen.; pur. 26,805,000 kWh; rev. $1,129,000. (1942)*[5]

LUCAS Village of, Box 213, 44843, 419/8[illegible]-2178, James Sprang, supt.; 32[illegible] met.[5]

MARSHALLVILLE Mun. Utils. Dept., Box 227, 44645, 216/855-2491, Herb Brillhart, supt; 300 met.[5]

MENDON, Village of, Box 167, 45862, 419/795-7131, Randy Stein, supt.; 348 met.; no gen.; pur. 3,891,536 kWh; rev. $259,811.[5]

MILAN Mun. Elec.Light Dept., S. Main St., 44846, 419/499-2133, Larry Doerner, supt.; 658 met.; no gen.; pur. 8,071,812 kWh. (1907)[4]

MINSTER Elec., 29 S. Hanover St., 45865, 419/628-2850, Joseph F. Bruns, supt.; 1,157 met.; no gen.; pur. 64,285,000 kWh; rev. $2,441,804. (1910)*[5]

MONROEVILLE Mun. Elec., 2 S. Main St., 44847, 419/465-2922, Joe Gravenhorst, supt.; 780 met.; no gen.; pur. 19,495,800 kWh; rev. $1,002,145. (1906)*†[5]

MONTPELIER Mun., 211 N. Jonesville St., 43543, 419/485-3693, Donald Olmstead, supt.-engr.; 1,897 met.; no gen.; sales 29,466,000 kWh. (1893)[5]

NAPOLEON City of, Light and Power, 255 W. Riverview, Box 151, 43545, 419/592-4010, Dave Mullholand, elec. dist. supt.; 4,892 met.; no gen.; pur. 113,375,000 kWh; rev. $6,214,000. (1894)*[5]

NEW BREMEN, Village of, 214 N. Washington St., 45869, 419/629-2827, Clarence B. Art, village adm.; 1,130 met.; no gen.; pur. 4,526,389 kWh; rev. $1,852,445.[5]

NEW KNOXVILLE, Bd. of Pub. Affairs, Box 246, 45871, 419/753-2160, Bob Scheblo, village admin.; 402 met.; no gen.[5]

NEWTON FALLS, City of, Light & Power, 53 E. Church St., 44444, 216/872-7711, Ron Miller, supt.; 3,000 met.; no gen.; pur. 28 million kWh.[5]

NILES, City of, Water & Light, 34 W. State St., 44446, 216/652-2622, Charles W. Burgess, supt.; 11,011 met.; no gen.; pur. 188,496,000 kWh; rev. $10,950,943.[3]

OAK HARBOR, Light and Water Dept., 146 Church St., Box 232, 43449, 419/898-3881, Kenley C. Wood, supt., light and water dept.; 1,263 met.; no gen.; pur. 15,349,416 kWh; rev. $780.441. (1914)*[3]

OBERLIN Mun. Light & Power System, 289 S. Professor St., 44074, 216/775-1531, Roger Merriman, dir.; 2,750 met.; gen. 3,700 kW oil-fired, 8,200 kW dual-fuel; 10,427,000 kWh; pur. 23,648,000 kWh; rev. $4,599,000. (1934)*†[5]

OHIO CITY, Box 248, 45874, 419/965-2255, Floyd E. Spitler, util. supvr.; 500 met. no gen.; pur. 258,653,000 kWh; rev. $307,201. (1930)[5]

ORRVILLE Dept. of Pub. Utils.; Box 126, 44667, 216/683-8715, Robert A. Nichols, dir. util.; 5,221 met.; gen. 56,919 kW, 24,999 kW coal (steam turbine), 600 kW oil-fired; 211,080,000 kWh; pur. 12,888,000 kWh; rev. $9,220,946. (1917)*[5]

PAINESVILLE, City of, 7 Richmond St., Box 601, 44077, 216/352-9301, Thomas Green, elec. power supt.; 9,193 met.; gen. 51,500 kW steam; 123,056,100 kWh; pur. 30,493,100 kWh; rev. $7,550,639. (1888)[3]

PEMBERVILLE, Village of, Bd. of Pub. Affairs, 115 Main St., Box 109, 43450, 419/287-3832, Don Oberhouse, pres., bd. of pub. affairs; 619 met.; no gen. pur. 7,890,000 kWh; rev. $554,197. (1914)[3]

PIONEER Bd. of Pub. Affairs, 106 First St., Box 335, 43554, 419/737-2614, T. E. Williams, supt.; 470 met.; no gen.; pur. 6.8 million kWh. (1912)[1]

PIQUA Mun. Power System, 919 S. Main St., 45356, 513/778-2080, H. E. Hastings, dir.; 9,041 met.; gen. 60,000 kW, 40,000 kW coal, 20,000 kW oil turbine; 151,253,860 kWh; pur. 54,342,000 kWh; rev. $11,300,348. (1933)*[5]

PLYMOUTH, Village of, 25 Sandusky St., 44865, 419/687-4331, James Root, adm.; 810 met.; no gen.; sales

8,101,000 kWh; rev. $450,000. (1910)[4]

PROSPECT Mun. Elec. System, Box 186, 43342, 614/494-2115, Richard Stover, supt.; 621 met.; no gen.; pur. 6,593,950 kWh; rev. $481,539. (1937)[*4]

REPUBLIC Bd. of Pub. Affairs, 219 Washington, Box 68, 44867, 419/585-5981, Edwin D. Porter, maint. supt.; 296 met.; no gen.; pur. 2,981,900 kWh; rev. $177,908.[5]

RIPLEY Bd. of Pub. Affairs, 14 N. Third, 45167, 513/392-4377, Carl Judy, supt.; 1,170 met.; no gen.[5]

ST. CLAIRSVILLE Mun. Utils., 100 Market, Box 537, 43950, 614/695-1410, Dennis Benish, supt; 2,500 met.; no gen.[5]

ST. MARYS, City of, 101 E. Spring St., 45885, 419/394-3303, Stan Davis, dir. of pub. serv. & safety, 2,517 met.; gen. 19,000 kW, 18,500 kW steam, 500 kW oil (comb. turbine); 53,123,680 kWh; pur. 8,448,377 kWh; rev. $4,436,555. (1890)[*5]

SEVILLE Bd. of Pub. Affairs, 44 W. Main St., 44273, 216/769-2458, Harold Baker, supt.; 1,140 met.; no gen. (1914)[*5]

SHELBY Dept. of Utils., 23 E. Main St., Box 311, 44875, 419/342-4085, David Burford, util. sec.; 4,500 met.; gen. 40,500 kW, 37,500 kW steam, 3,000 kW eng., 86 million kWh; pur. none; rev. $3,650,000. (1892)[5]

SHILOH, Village of, BPA, 12 W. Main, Box 242, 44878, 419/896-2011, Wayne Baker, attendant; 286 met.; no gen.; pur. 3,782,940 kWh; rev. $143,000.[5]

SOUTH VIENNA, Village of, 499 E. Main, 45369, Cathie Hurst, clerk, bd. of pub. affairs; 178 met.; no gen.; sales 2,711,987 kWh; rev. $187,137.[5]

SYCAMORE Light & Water Dept., Box 297, 44882, 419/927-4432, Ralph Maenle, supt.; 497 met.; no gen. (1930)[5]

TIPP CITY Mun. Utils., 3 E. Main St., 45371, 513/667-8424, Gregory Horn, Husemann, city mgr.; 2,623 met.; no gen.; pur. 64,958,186 kWh; rev. $3,219,581. (1897)[5]

TONTOGANY, Village of, 43565, 419/823-4465, Ralph Wires, pres., 190 met.; no gen.; pur. 2,471,200 kWh; rev. $149,826. (about 1917).[5]

VERSAILLES Utils., 6 S. Center St., 45380, 513/526-4191, Ramon Nickol, supt. of utils.; 1,476 met.; no gen.; pur. 27,961,914 kWh; rev. $1,572,460. (1901)[*†5]

WADSWORTH, City of, 145 High St., 44281, 216/335-1521, William J. Lyren, dir. of pub. serv.; 7,798 met.; no gen.; pur. 141,744,000; rev. $7,416,952. (1903)[*5]

WAPAKONETA, City of, Light & Power, 102 Perry St., 45895, 419/738-7713, Lewis R. Knoch, supt.; 4,287 met.; no gen.; pur. 104,671,680 kWh. (1892)[*3]

WAYNESFIELD Bd. of Pub. Affairs, 104 W. Perry St., Box 336, 45896, 419/568-4991, Ronald Zimmerman, util. supt.; 400 met.; no gen.; pur. 4,725,955 kWh; rev. $237,504. (1911)[5]

WELLINGTON Mun. Utils., 115 Willard Memorial Square, 44090, 216/647-3827, Robert A. Dupee, dir. of utils.; 1,886 met.; no gen.; sales 22,795,000 kWh; rev. $2,496,469. (1900)[*5]

WESTERVILLE, City of, Elec. Div., 139 E. Broadway, 43081, 614/890-8540, Andrew Grieve, dir. of utils., 9,333 met.; no gen.; pur. 223,580,772 kWh; rev. $12,711,873. (1898)[*5]

WHARTON Bd. of Pub. Affairs, Box 266, 43359, 419/458-2121, Calvin J. Pever, clerk; 191 met.; no gen.; pur. 1,500,000 kWh; rev. $100,343. (1935)[3]

WOODSFIELD Bd. of Pub. Affairs, 203 Roy St., 43793, 614/472-0884, Ellis Smithberger, supt.; 1,200 met.[5]

WOODVILLE, Village of, 219 W. Main, 43469, 419/849-2731, Robert Rickard, 825 met.; no gen.; pur. 8,232,600 kWh; rev. $512,300.[5]

YELLOW SPRINGS, Village of, 314 Dayton St., 45387, 513/767-7202, Kent Bristol, village mgr.; 1,810 met.; no gen.; sales 36,000,000 kWh; rev. $2,200,000.[*5]

OKLAHOMA

ALTUS, City of Elec. Dept., Box 8140, 73521, 405/477-1950, Edward Weisman, city admin.; 9,677 met.; no gen.; rev. $8,305,952. (1929)[*5]

ANADARKO Pub. Wks. Auth., 501 W. Va., Box 647, 73005, 405/247-2481, Robert Williamson, city mgr.; 3,200 met.; no gen.; pur. 55,207,000 kWh; rev. $2,614,000.[5]

BLACKWELL, City of, Municipal Auth., Box 350, 74631, 405/363-4312, Bruce Stone, city mgr.; 4,201 met.; no gen.; pur. 77,938,000 kWh; rev. $4,083,603. (1913)[*3]

BRAMAN, Town of, 308 Broadway, 74632, 405/385-2169, Devern L. Miller, city clk.; 200 met.; no gen.; rev. $142,138. (1924)[5]

BURLINGTON, Utility Enterprise, Box 216, 73722, 405/431-2550, Ray Thompson, admin.; 116 met.; pur. 1,504,200 kWh; rev. $131,736. (1932)[4]

CHELSEA, Town of, Box 48, 74016, 918/789-3626, Alan Harris, elec. supt.; 1,040 met.; no gen.; pur. 10,400,000 kWh; rev. $322,650. (1914)[5]

CLAREMORE,, City of, Mun. Elec., 724 Ramm Rd., 74017, 918/341-2895, Don Gilbert, elec. dir.; 7,205 met.; no gen.; pur. 162,555,200 kWh; rev. $6,202,162.[5]

COLLINSVILLE Elec. Dept., 106 N. 12th, Box A, 74021, 918/371-2811, Neil York, mayor; 1,651 met.; no gen.[5]

COMANCHE, City of, 115 N. Second, 73529, 405/439-8832, Beryl Blair, elec. supt.; 900 met.; no gen. (1912)[*5]

COPAN Light & Power, Box 219, 74022, 918/532-4285, Jim Hitchcock, city mgr.; 434 met.; no gen.; pur. 5,161,305 kWh; rev. $266,307. (1936)[4]

CORDELL, City of, 101 E. Main St., 73632, 405/832-3825, Danny Lenaburg, elec. supt.; 1,750 met.; no gen.; pur. 24 million kWh; rev. $173,219. (1910)[5]

CUSHING Power Plant, Seay & Oak St., 74023, 918/225-3035, Francis Fisher, supt.; 4,400 met.; gen. 15,785 kW dual-fuel (eng.), 35,595,000 kWh; pur. 35,595,000 kWh; rev. $4,563,000. (1935)[5]

DUNCAN Power & Light, Box 969, 73534, 405/252-0250, Don Howland, mgr.; 7,204 met.; no gen.; pur. 129,689,470 kWh; rev. $8,043,153. (1921)[*5]

EDMOND Pub. Works Auth., 315 SW 33rd St., Box 2970, 73083, 405/348-8830, ext. 291, Dallas D. Graham, city mgr.; 12,970 met.; no gen.; pur. 269,807,196 kWh; rev. $12,413,422. (1912)[*3]

ELDORADO Light Dept., 107 S. Fourth, Box 190, 73537, 405/633-2245, Harold Conwell, supt.; 398 meters; no gen.[*5]

FAIRVIEW, City of, Box 386, 73737, 405/227-4416, Dixie J. Blackledge, city mgr.; 1,509 met.; gen. 3,203 kW oil (eng.);124,800 kWh; pur. 28,888,800 kWh; rev. $2,150,985. (1908)[*4]

FORT SUPPLY, Town of, Box 156, 73841, 405/766-3211, Lee Hartzell, elec. supt.; 260 met.; no gen.[5]

FREDERICK Public Works Auth.; Box 399, 73542, 405/335-7571, William C. Martin, 2,830 met.; no gen.; pur. 47,400,894 kWh; rev. $3,198,439. (1917)[*5]

GEARY Mun. Light & Water Dept., Box 125, 73040, 405/884-5466, Ernest Allen, elec. supt.; 738 met.; no gen.; rev. $592,505.[5]

GOLTRY Public Works Auth.; Box 236, 73739, 405/496-2441, Jimmy D. Nichols, chmn.; 160 met.; no gen.; pur. 2,668,972 kWh, rev. $139,285.[*5]

GRAND RIVER DAM AUTHORITY, Box 409, Vinita, 74301, 918/256-5545, William E. Mickey, gen. mgr.; 70 met.; gen. 490,000 kW coal, (steam turbine), 465,900 kW hydro; 4,021,639,000 kWh; pur. 151,928,000 kWh; rev. $124,246,126. (1935)[*5] -

GRANITE, Town of, Box 116, 73547, 405/535-2116, Gary Hahn, util. supt.; 580 met.; no gen.; pur. 6,621,056 kWh; rev. $337,055. (1920)[*5]

HOMINY Public Works Auth.; Box 219, 74035, 918/885-2164, Paul D. O'Keefe, city admin.; 1,873 met.; no gen.; pur. 22,533,504 kWh; rev. $1,253,800.(1936)[*5]

KAW CITY, City of, 900 Morgan Sq. East, Box 26, 74641, 405/269-2525, Carolyne M. Goodwin, city clk., 151 met.; no gen.; pur. 1,763,930 kWh; rev. $117,934. (before 1925)[5]

KINGFISHER Power Plant, 3rd & Bowman, 73750, 405/375-4932, Danny L. Mastalka, plant supt.; 2,627 met.; gen. 8,400 kW dual-fuel eng.;3,086,100 kWh; pur. 37,575,400; rev. $2,453,586. (1900)[*4]

LAVERNE Municipality, 7th & Okla. St., Box 430, 73848, 405/921-5121, Jay D. McCoy, supt.; 750 met.[*5]

LEXINGTON Elec. Dept., Drawer D, 73051, 405/527-6123, Jesse Cooksey, elec. supt.; 750 met.; no gen. (1951)[*5]

LINDSAY Public Works Auth.; 308 S. W. Second, 73052, 405/756-4900, Bill Cowan, city mgr.; 1,900 met.; gen. 13,800 kW dual fuel eng., 4,959,800 kWh; pur. 16,564,192 kWh; rev. $1,088,326. (1915)[5]

MANCHESTER Light & Power Dept., Box 5, 73758, 405/694-2340, L. E. Toole, elec. supt.; 105 met.; no gen.[5]

MANGUM Utils. Auth., 201 N. Oklahoma St., 73554, 405/782-2256, Gerald Hukill, city mgr.; 2,283 met.; gen. 6,500 kW dual-fuel (eng.), 4,458,500 kWh; pur. 18,695,200 kWh; rev. $1,437,517. (pre-1929)*[3]

MANITOU Light Dept., Box 8, 73555, 405/397-2241, Genevieve Meadows, city clk.; 308 met.[5]

MANNFORD Elec. Dept., Box 327, 74044, 918/865-4314, W. P. Adkins, pub. works dir.; 814 met.; no gen.; rev. $891,333.[5]

MARLOW Light & Water Dept., 318 W. Main St., Box 113, 73055, 405/658-5401, Brant Ball, city mgr.; 2,500 met.; no gen.; pur. 29,370,000 kWh.*[4]

MIAMI Util. Dept., Box 1288, 74355, 918/542-7665, John C. Woody, gen. mgr.; 6,622 met.; no gen.; pur. 118,350,960 kWh; rev. $6,478,331. (1910)[5]

MOORELAND, Town of, Light & Power, Box 157, 73852, 405/994-5924, Dean Hensley, supt.; 705 met.; no gen.; sales 8,193,600 kWh; rev. $299,433. (1908)[5]

NEWKIRK Mun. Utils., Box 469, 74647, 405/362-2117, David Haynes, city mgr.; 1,123 met.; no gen. (1918)[5]

OKEENE Light & Water Dept., 213 N. Main St., Drawer F, 73763, 405/822-3031, Victor Koehn, supt.; 612 met.; no gen.; pur. 15,200,200 kWh; rev. $609,518.*[5]

OLUSTEE, Town of, Box 330, 73560, 405/648-2288, Dorothy Clowdus, city clk.; 296 met.; no gen.; pur. 2,456,815 kWh.*[5]

ORLANDO Public Works Authority, Box 27, 73073, 405/455-2523, Debbie Van Franken, town clk.; 90 met.; no gen.; rev. $96,000.[4]

PAWHUSKA, City of, Box 539, 74056, 918/287-3260, Harvey Massey, city mgr.; gen. 8,700 kW dual-fuel; 439,000 kWh; pur. 34,439,384 kWh. (1907)*[5]

PAWNEE Mun. Light & Water Dept., 614 Kansas St., Box 130, 74058, 918/762-2658, Alford Majors, mayor; 1,200 met.[4]

PERRY, City of, Water & Light Dept., Box 111, 73077, 405/336-4241, Charles J. Bezdicek, util. mgr.; 3,240 met.; no gen.; pur. 57,780,000 kWh; rev. $3,060,902. (1922)[3]

PONCA CITY Mun. Elec. Dept., Box 1450, 74602, 405/765-6653, Charles L. Silvy, dir., utils.; 15,864 met.; gen. 58,000 gas (steam turbine), 28,000 kW dual-fuel (eng.), 9,868,000 kWh; pur. 251,256,000 kWh; rev. $14,986,541. (1914)*[5]

POND CREEK Water & Light Dept., Box 45, 73766, 405/532-4915, Richard Dillon, elec. supt.; 552 met., no gen.; pur. 6 million kWh; rev. $700,000.*[4]

PRAGUE, City of, Box 648, 74864, 405/567-2279, Steve Behrnes, head lineworker; 1,197 met.; no gen.; pur. 18,076,000 kWh; rev. $1,041,068. (1902)[5]

PRYOR Mun. Util. Bd., 6 N. Adair, 74361, 918/825-2100, Bob Pierson, gen. mgr.; 4,080 met.; no gen.; pur. 66,334,000 kWh; rev. $3,789,596. (1951)[5]

PURCELL Pub. Works Auth., 230 W. Main, Box 71, 73080, 405/527-6561, Robert Collings, city mgr.; 3,000 met.; no gen.[5]

RYAN Mun. Light & Water Plant, Box 489, 73565, 405/757-2406, Homer Parker, elec. supt.; 500 met.; no gen.; pur. 6,515,711 kWh; rev. $252,413.*[5]

SALLISAW Light & Power Dept., 111 N. Elm, Drawer C, 74955, 918/775-6241, James R. Hudgens, city mgr.; 3,234 met.; no gen.; pur. 81,934,200 kWh; rev. $3,475,468. (1914)[4]

SKIATOOK Elec. Dept., City Hall, Box 399, 74070, 918/396-2797, Monte Gondles Jr., adm. asst.; 1,900 met.; no gen.; pur. 36 million kWh.[4]

SOUTH COFFEYVILLE Mun. Elec. System, Drawer C, 74072, 918/255-6045, Pat Yates, mayor; 375 met.; no gen.; pur. 3 million kWh; rev. $181,284.[5]

SPIRO Mun. Improvement Auth., 131 S. Main St., 74959; 918/962-2470, Stearl Nelson, mayor; 1,000 met.; no gen.; rev. $618,000.*[5]

STILLWATER Utils. Auth., Box 1449, 74076, 405/372-0025, Karl Stadler, dir. elec. utils; 16,734 met.; gen. 24,000 kW gas (steam turbine), 3,331,900 kWh; pur. 272,829,818 kWh; rev. $12,685,000. (1900)*[3]

STILWELL Util. Dept., Box 840, 74960, 918/696-3400, Page G. Arnall, supt. util.; 1,352 met.; no gen.; pur. 32,260,800 kWh, rev. $1,425,592. (1952)[5]

STROUD Water & Light Dept., Box 500; 918/968-2890, Wess Devero, mgr.; 1,383 met.; no gen.; pur. 20,460,000 kWh; rev. $1,316,146. (1927)[5]

TAHLEQUAH Pub. Wks. Auth., Box 29, 74465, 918/456-2564, J. M. Hicks, gen. mgr.; 3,744 met.; no gen.; pur. 87,192,300 kWh; rev. $4,503,500. (1935)[5]

TECUMSEH Util. Authority, 114 N. Broadway, 74873, 405/598-2188, Randy Swinson, city mgr.; 2,176 met.; no gen.[5]

TONKAWA, City of, Box 467, 74653, 405/628-2508, Mark Kelln, city mgr.; 1,800 met.; no gen. (4,200 kW standby). (1925)[5]

WAGONER Pub. Wks. Auth., 231 Church St., Box 406, 74467, 918/485-2554, Alva Smith, mgr.; 3,500 met.; no gen.[5]

WALTERS, City of, Box 485, 73572, 405/875-3337, Buddy Veltema, city mgr.; 1,530 met.; no gen.; pur. 18,336,752 kWh; rev. $825,633. (1923)*[4]

WATONGA Water & Light System, 115 Weigle St., Box 280, 73772, 405/623-7354, Kenneth Marshall, supt.; 2,282 met.; no gen.; pur. 28,771,200 kWh; rev. $2,492,394. (1907)[5]

WAYNOKA Light & Power, 201 E. Cecil St., 73860, 405/824-2261, Ray Gamble, elec. supt.; 848 met.; no gen.; pur. 9,571,200 kWh.*[5]

WETUMKA Mun. Auth.; 202 N. Main, 74883, 405/452-3251, Joel Heathcott, mgr.; 825 met.; no gen.; pur. 9,345,000 kWh; rev. $975,000. (1925)[5]

WYNNEWOOD Water & Light Dept., 207 W. Robt. S. Kerr, 73098, 405/665-4141; Don Harmon, supt.; 1,250 met.*[5]

YALE Mun. Elec. System, 209 N. Main, 74085, 918/387-2405, Jim Whisenant, city mgr.; 850 met.; no gen.*[5]

OREGON

ASHLAND, City of, 20 E. Main St., 97520, 503/482-3211, Al Williams, dir.; 6,599 met.; no gen.; pur. 125,632,000 kWh; rev. $4,269,232. (1909)[4]

BANDON, City of, Box 67, 97411, 503/347-2437, Ben M. McMakin, city mgr.; 2,302 met.; no gen.; pur. 48,373,560 kWh; rev. $2,019,608. (1921)*[5]

CANBY Util. Bd., Box 470, 97013, 503/266-1156, Stephan A. Lashbrook, mgr.; 3,383 met.; no gen.; pur. 96,635,340 kWh; rev. $3,354,074. (1969)[5]

CASCADE LOCKS, City of, Box 308, 97014, 503/374-8484, Ken Hobson, city admin.; 719 met.; no gen.; pur. 27,937,666 kWh; rev. $1,032,854. (1939)*[5]

CENTRAL LINCOLN PEOPLE'S UTILITY DISTRICT, Box 1126, Newport, 97365, 503/265-3211, Roland Neutzmann, gen. mgr.; 27,727 met.; no gen.; pur. 1,290,855,552 kWh; rev. $37,711,080. (1943)*[5]

CLATSKANIE PEOPLE'S UTILITY DISTRICT, Box 216, Clatskanie, 97016, 503/728-2163, Liston Darby, gen. mgr.; 3,517 met.; no gen.; pur. 750,000,000 kWh; rev. $17,353,950. (1940)*[5]

COLUMBIA RIVER PEOPLE'S UTILITY DISTRICT, Box 1193, St. Helens, 97051, 503/397-1844, Fergus Pilon, gen. mgr.; 6,489 met.; no gen.; pur. 234,349,000 kWh; rev. $9,372,700.*[5]

DRAIN, City of, Elec. Util., Box 158, 97435, 503/836-2417, Robert A. Gray, city admr.; 600 met.; no gen.; pur. 15,626,000 kWh; rev. $654,796. (1940)[5]

EMERALD PEOPLE'S UTILITY DISTRICT, 5001 Franklin Blvd., Eugene, 97403, 503/746-1583, Lon Topaz, gen. mgr.; 13,219 met.; no gen.; pur. 334,430,605 kWh; rev. $13,044,074.*[5]

EUGENE Water & Elec. Bd., Box 10148, 97440, 503/484-2411, Jean Reeder, gen. mgr.; 62,433 met.; gen. 162,700 kW; 51,200, kW oil (steam turbine), 111,500 kW hydro, 464,354,500 kWh; pur. 1.8 billion kWh; rev. $58,359,711. (1911)*†[5]

FOREST GROVE, City of, Light & Power Dept., Box 326, 97116, 503/357-7151, Doug Sleeth, dir., light and power dept.; 6,055 met.; no gen.; pur. 182,979,500 kWh; rev. $3,262,482. (1896)*†[5]

McMINNVILLE Water & Light Dept., 130 N. Baker St., 97128, 503/472-6158, Rich Custer, actg. gen. mgr.; 8,380 met.; no gen.; sales 388,103,803 kWh; rev. $9,805,217. (1889)*†[4]

MILTON-FREEWATER City Light & Power, 722 S. Main, Box 6, 97862, 503/938-5531, George N. McRae, elec. supt.; 4,268 met.; no gen.; pur. 110,564,657 kWh; rev. $1,292,272. (1890)*[5]

MONMOUTH, City of, 151 W. Main St., 97361, 503/838-0722, Stan Kenyon, city mgr; 2,516 met.; no gen.; pur. 49.6 million kWh; rev. $1,633,320. (1940)*†[5]

NORTHERN WASCO COUNTY PEOPLE'S UTILITY DISTRICT, The Dalles, Box 621, 97058, 503/296-2227, Harold Haake, mgr.; 8,762 met.; no gen.; pur. 206.7 million kWh; rev. $7,791,760. (1939)*†[5]

SPRINGFIELD Util. Bd., 250 N. A. St., 97477, 503/746-8451, Steve L. Loveland, gen. mgr.; 20,623 met.; no gen.; pur. 663.4 million kWh; rev. $20,361,813. (1950)*[5]

TILLAMOOK PEOPLE'S UTILITY DISTRICT, Box 433, Tillamook, 97141, 503/842-2535, Jack H. Madison, mgr. (until June 30); 14,539 met.; no gen.; pur. 310.1 million kWh; rev. $12,643,330. (1932)*†[5]

PENNSYLVANIA

BERLIN Mun. Elec. Sys., 700 North St., 15530, 814/267-3837, Kerry B. Claycomb, exec. bor. secy.; 1,000 met.; no gen; sales 12,874,000 kWh; rev. $922,572.[5]

BLAKELY Borough Mun. Light Co., 800 Main St., Peckville, 18452, 717/489-8986, Harold J. McCusker Jr., bor. mgr.; 2,988 met.; no gen.; pur. 31,224,000 kWh; rev. $2,272,326. (1895)[5]

CATAWISSA Bor. Electric, Box 44, 17820, 717/356-2561, Edward J. Petio, supt.; 795 met.; no gen.; rev. $625,000. (1928)[5]

CHAMBERSBURG, Bor. of, Elec. Dept., 100 S. Second St., 17201, 717/264-5151, Julio D. Lecuona, bor. mgr.; 8,143 met.; gen. 4,100 kW dual-fuel, 11,000 kW steam turbine, 4,100 kW hydro, 270,500 kWh; pur. 188,440,000 kWh; rev. $8,427,124. (1893)*[5]

DUNCANNON Borough, 428 High St., Box 9, 17020, 717/834-4311, Thomas Evans, borough mgr.; 810 met.; no gen.; sales 6,530,811 kWh; rev. $431,367. (1898)[5]

EAST CONEMAUGH Mun. Elec Dept., 355 First St., Borough Bldg., 15909, 814/539-0193, Bernard Waltz, supvr.; 808 met.; no gen.; pur. 5,235,200 kWh; rev. $422,304.(approx. 1900)[5]

ELLWOOD CITY, Bor. of, 525 Lawrence Ave., 16117, 412/758-5576, Robert McClelland, supt.; 4,211 met.; no gen.; pur 40,424,000 kWh; rev. $2,809,562. (1901)[5]

EPHRATA Power & Light, 114 E. Main St., 17522, 717/733-1277, L. Victor Dickinson, bor. mgr.; 5,173 met.; no gen.; pur. 85 million kWh; rev. $5,018,000. (1902)*†[4]

GIRARD, Bor. of, 34 Main St. West, 16417, R.H. Gebhart, bor. mgr.; 1,261 met.; no gen.; pur. 22,180,800 kWh; rev. $1,417,000. (1900)[5]

GOLDSBORO E.L.H.&P. Util., Etters, Box 14, 17319, 717/938-3456, Lee V. Fishel, bor. mgr.; 224 met.; no gen.; pur. 1,867,700 kWh; rev. $135,146. (1913)[5]

GROVE CITY Borough Elec. Dept., 315 Park Street, 16127, 412/458-7070, John T. Bouck, supt.; 2,755 met.; no gen.; pur. 36,494,400 kWh; rev. $2,564,081. (1908)*[4]

HATFIELD Mun. Sys., Broad and Cherry Sts., Box 190, 19440, 215/855-0781, Leonard T. Perrone, bor. mgr.; 1,200 met.; pur. 13,455,000 kWh; rev. $850,000. (1930)[3]

HOOVERSVILLE Borough, Box 176, 15936, 814/798-8001, Judy Shaffer, borough sec.; 388 met.; no gen.; pur. 2,890,400 kWh; rev. $221,193.[5]

KUTZTOWN, Borough of, 211-213 W. Main St., 19530-1697, 215/683-6131, Alan J. Darion, chmn., elec. comm.; 1,960 met.; no gen.; pur. 46,573,965 kWh; rev. $3,349,640. (1904)*[5]

LANSDALE, Borough of, 421 W. Main St., 19446 215/368-1691, Edward W. Olander, supt. elec. dept.; 7,578 met.; no gen.; pur. 115,350,000 kWh; rev. $9,468,288. (1902)*[5]

LEHIGHTON Borough Light & Power Dept., Box 29, Municipal Bldg., 18235, 215/377-4002, Mortimer L. Smedley, Jr., mgr.; 2,936 met.; no gen.; pur. 37,045,000 kWh; rev. $2,286,410. (1940)[5]

LEWISBERRY, Borough of, Box 172, 17339, 717/938-6446, Sandra Griffith, vic pres. of council; 141 met.[4]

MIDDLETOWN Borough of, 60 West Emaus St., 17057, 717/944-4686, John Shank, pub. works dir.; 3,681 met.; no gen.; pur. 71,463,848 kWh; rev. $1,725,814. (1906)*[5]

MIFFLINBURG, Bor. of, Elec. Dept., 333 Chestnut St., 17844, 717/966-1013, George M. Streese, bor. mgr.; 1,614 met., no gen.; pur. 34,341,000 kWh; rev. $2,062,000. (1925)[5]

MONT ALTO, Bor. of, Mun. Elec. Dept., Box 427, 17237, 717/749-5808, Lorraine L. Bumbaugh, bor. sec.-treas.; 484 met.; no gen.; pur. 4,797,002 million kWh; rev. $240,920. (1918)[5]

NEW WILMINGTON Borough, 140 W. Neshannock Ave., 16142, 412/946-8167, Edward Garrett, borough supt.; 730 met.; no gen.; pur. 11,985,000 kWh; rev. $882,562.[5]

OLYPHANT Borough Elec. Plant, Willow Ave., 18447, 717/489-3211, John Cecere, plant frmn.; 2,086 met.; no gen.; pur. 20,005,100 kWh; rev. $1,434,375.[5]

PENNSYLVANIA STATE UNIVERSITY, Room 417, Old Main Bldg., University Park, 16802, 814/665-1409, G.W. Schimmel, dir. elec. ops.; 370 met.; gen. 6,500 kW coal (steam); 20 million kWh; pur. 111 million kWh. (1893).[5]

PERKASIE Bor. Elec. Dept., Box 275, 18944, 215/257-5065, Gary A. Nace, bor. mgr.; 2,950 met.; no gen.; pur. 38,887,600 kWh; rev. $2,407,829. (1900)*[5]

PITCAIRN Mun. Elec. Light Plant, 582 6th St., 15140, 412/372-6500, George H. Myers, mgr.; 2,000 met.; no gen. (1901)*[5]

QUAKERTOWN, Bor. of, 15-35 N. 2nd St., Box 727, 18951, 215/536-5001, Nicholas Luca, bor. mgr.; 3,945 met.; no gen.; pur. 84,220,000 kWh; rev. $4,497,645. (1904)[5]

ROYALTON Borough, Burd and Dock Sts., Middletown, 17057, 717/944-4831, Alton S. Goodling, council pres.; 404 met.; no gen.; pur. 2,270,400 kWh; rev. $147,535. (1930)[5]

ST. CLAIR Borough Elec. Light Dept., 39 N. Second St., 17970, 717/429-0640, Donald C. Hosler, gen. supt.[4]

SCHUYLKILL HAVEN Borough, 39 Dock St., 17972, 717/385-2841, R.L. Waller, bor. mgr.; 2,727 met.; no gen.; pur. 43,943,000 kWh; rev. $2,524,500.[5]

SMETHPORT, Bor. of, Elec. Dept., 412 Water St., 16749, 814/887-5815, William H. Covert, Jr., elec. supt.; 981 met.; no gen.; pur. 9,862,800 kWh; rev. $586,885.[3]

SUMMERHILL Borough Mun. Light Plant, Box 289, 15958, 814/495-5610, Janet S. Thomas, sec.-treas.; 300 met.; no gen.; pur. 2,397,700 kWh; rev. $197,385.[5]

WAMPUM Borough Elec. Dept., Box 65, 16157, 412/535-8241, Charles Kelly, maint. supt.; 370 met.; no gen.; pur. 3,161,700 kWh; rev. $215,161. (1910)[5]

WATSONTOWN Borough Elec. Dept., Fourth and Main Sts., Box 273, 17777, 717/538-1000, David L. Smith, mgr.; 1,025 met.; no gen.; pur. 13,038,000 kWh; rev. $896,113.[5]

WEATHERLY Borough Elec. Dept., 10 Wilbur St., 18255, 717/427-8640, Beverly E. Knepper, bor. mgr.; 1,101 met.; no gen.; pur. 19,145,000 kWh; rev. $1,055,173.*[4]

ZELIENOPLE Mun. Elec., 111 W. New Castle St., 16063, 412/452-7260, Charles M. Mick, supt.; 1,638 met.; no gen.; pur. 21,000,000 kWh; rev. $1,500,000.[5]

RHODE ISLAND

PASCOAG FIRE DISTRICT, 33 S. Main St., Pascoag, 02859, 401/568-6222, Howard C. Peters, gen. mgr.; 3,197 met.; no gen.; pur. 25,918,007 kWh; rev. $2,461,359. (1887)[5]

SOUTH CAROLINA

ABBEVILLE Water & Elec., Box 639, 29620, 803/459-5058, Mike Moorhead, city engr.; 2,975 met.; gen. 3,724 kW, 2,600 kW hydro, 1,124 kW eng., 9,800,000 kWh; pur 40,596,114 kWh; rev. $1,957,101. (1905)*[4]

BAMBERG Bd. of Pub. Works, Box 300, 29003, 803/245-5128, Bruce G. Ellis, gen. mgr.; 1,600 met. (1905)[5]

BENNETTSVILLE Elec., Water & Gas, Box 1036, John Corry Rd., 29512, 803/479-9001, Bill Jennings, city clk.; 4,483 met.; no gen.; sales 64,923,280 kWh; rev. $4,225,161. (1903)[5]

CAMDEN, City of, 1000 Lyttleton St., 29020, 803/432-2421, Charles Litchfield, dir.; 8,400 met.; no gen.; pur. 133,427,000 kWh; rev. $8,023,348. (1947)*[5]

CLINTON, City of, 219 Gary St., Drawer 748, 29325, 803/833-1350, J. Russell Allen, city mgr.; 3,350 met.; no gen.; pur. 81,771,064 kWh; rev. $3,919,735. (1907)*[3]

DUE WEST, Town of, Box 278, 29639, 803/379-2385, C. H. Hawthorne, supt.; 367 met.; no gen.; pur. 8,781,600 kWh; rev. $405,572. (prior to 1948)[3]

EASLEY Combined Util. System, Box 605, 29640, 803/859-4013, Richard S. Hale, mgr.; 8,222 met.; no gen.; pur. 163,007,591 kWh; rev. $7,984,004. (1910)*[5]

GAFFNEY Bd. of Pub. Works, 210 E. Frederick St., Box 64, 29342, 803/487-7171, Houston F. Crater Jr., mgr.; 6,305 met.; no gen.; pur. 139,463,137 kWh; rev. $6,410,130. (1907)*[5]

GEORGETOWN Light & Water Dept., Box 1146, 29440, 803/546-5632, W. L. Hewitt, util., mgr.; 4,500 met.; no gen. (1920)[5]

GREENWOOD Comm. of Pub. Works, Box 549, 29648, 803/223-8571, Gerry O. Crawford, mgr.; 10,414 met.; no gen.; pur. 178,102,839 kWh; rev. $7,373,771. (1896)*[3]

GREER Comm. of Pub. Works, Box 216, 29652, 803/877-0171, Tim Thornton, 7,020 met.; no gen.; pur. 128,267,446 kWh; rev. $5,956,600. (1914)*†[5]

LAURENS Comm. of Pub. Works, Box 349, 29360, 803/984-2576, Sam R. Wallace, mgr.; 4,855 met.; no gen.; pur. 80,287,804 kWh; rev. $3,699,451. (1922)*[5]

McCORMICK Comm. of Pub. Works, 704 Calhoun St., Box 656, 29835, 803/465-2224, J. Eakin Cochran, supt.; 886 met.; no gen.; pur. 14,793,600 kWh; rev. $734,417. (1926)*[3]

NEWBERRY, City of, Drawer 538, 29108, 803/276-0471, Steve D. Reeves Jr., utils. dir.; 4,446 met.; no gen.; pur. 109,868,040 kWh; rev. $4,974,358. (1923)*[4]

ORANGEBURG Dept. of Pub. Utils., Box 1057, 29115, 803/523-2828, Ted M. Johnson Jr., mgr.; 20,689 met.; no gen.; pur. 495,952,000 kWh; rev. $27,482,857. (1898)*[4]

PROSPERITY, Town of, McNeary St., Box 36, 29127, 803/364-2616 or 2622, J. Walter Hamm, mayor; 479 met.; no gen.; pur. 7,377,382 kWh; rev. $300,455. (1920)[5]

ROCK HILL, City of, Box 11706, 155 Johnston St., 29731-1706, 803/328-6171, C.A. Owen, utils. dir.; 16,706 met.; no gen.; pur. 374,446,720 kWh; rev. $19,783,164. (1910)*[5]

SENECA Light & Water Plant, Box 4773, 29679, 803/882-8359, H. Jerry Balding, dir. of utils.; 5,213 met.; no gen.; pur. 93,641,400 kWh; rev. $5,035,000. (1907)*[5]

SOUTH CAROLINA PUBLIC SERVICE AUTHORITY (Santee Cooper), One Riverwood Drive, Box 398, Moncks Corner, 29461, 803/761-8000, William C. Mescher, pres.; 63,520 met.; gen. 3,089,175 kW, 100,000 kW oil, 2,325,000 kW coal (steam turbine), 300,000 kW nuclear, 229,560 kW comb. turbine, 134,615 kW hydro; 9,847,678,000 kWh; pur. 474,131,184 kWh, rev. $356,713,533. (1934)*†[5]

UNION, City of, Box 886, 29379, 803/427-6282, T.D. Sherbert Jr., dir. of utils.; 6,402 met.; no gen.; pur. 95,637,600 kWh; rev. $4,837,369.(1897)*[5]

WESTMINSTER Comm. of Pub. Works, Box 216, 29693, 803/647-5071 or 803/647-2026, Sam Stribling, supt.; 1,875 met.; no gen.; pur. 772,717 kWh; rev. $918,854. (1875)*[3]

WINNSBORO, Town of, Box 209, 29180, 803/635-4041, L.C. Greene, town mgr.; 2,655 met.; no gen.; pur. 42,451,200 kWh; rev. $2,046,360. (1910)[4]

SOUTH DAKOTA

ARLINGTON Mun. Light Plant, 57212, Wayne Reit, supt.; 496 met.; gen. 800 kW eng.; pur. 8,640,700 kWh; rev. $265,670.*[3]

AURORA, City of, Box 112, 57002, 605/693-3752, Elaine Waples, fin. off.; 235 met.; no gen.; pur. 3,320,096 kWh; rev. $185,814. (1968)*[5]

BADGER, Town of, Box 123, 57214, 605/983-5385, Myron Anderson, pres.; 78 met.; no gen.; pur. 1,219,817 kWh; rev. $30,109. (1956)[5]

BERESFORD, City of, 101 N. Third St., 57004, 605/763-2008, Richard Satiroff, supt.; 950 met.; no gen. (1950)*†[5]

BIG STONE CITY Mun. Elec. Dept., 57216, Box 246, 605/862-8121, Mary Jane Lempka, town clerk; 395 met.; pur.12,127,392 kWh; rev. $324,553.*†[3]

BROOKINGS Mun. Utils., 525 Western Ave., Box 588, 57006, 605/692-6325, Craig Osvog, gen. mgr.; 6,168 met.;no gen.; pur. 139,438,000 kWh; rev. $4,794,718. (1899)*†[5]

BRYANT, City of, Box 145, 57221, 605/628-2931, Arthur Erickson, mayor; 249 met.; no gen.; pur. 3,184,676 kWh; rev. $81,491. (1958)[5]

BURKE Municipal, Box 312, 57523, 605/775-2692, Richard N. Bailey, supt. of utils.; no gen.; pur. 5,319,609 kWh; rev. $248,714. (1936)*†[5]

COLMAN, City of, Box 54, 57017, 605/534-3611, Svend Iversen, mayor; 255 met.; no gen. (1965)*[5]

ELK POINT, City of, Box 28, 57025, 605/356-2631, Robert L. Erlick, supt.; 610 met.; no gen.; pur. 10,426,724 kWh; rev. $632,073. (1918)[5]

ESTELLINE, City of, Box 278, 57234, 605/873-2388, Donald A. Seeklander, city engr.; 386 met.; no gen.; sales 5,571,705 kWh; rev. $299,184.*[5]

FAITH Mun. Elec. Co., Box 368, 57626, 605/967-2261, Donn Dupper, supt.; 240 met.; no gen.; rev. $86,546.*†[3]

FLANDREAU, City of, 136 Second Ave., E., 57028, 605/997-2848, Don Johnston, supt., light & power; 1,260 met.; no gen.; pur. 15,851,000 kWh; rev. $819,136. (1938)*†[5]

FORT PIERRE Mun. Elec., Box 637, 57532, 605/223-2508, Melvin Schmitgen, city supt.; 830 met.; no gen.; pur. 14,673,853 kWh; rev. $569,462. (1900)*†[5]

GROTON, City of, Light Dept., Box 587, 57445, 605/397-2690, David Anderson, supt.; 559 met.; no gen. (1921)*[5]

HECLA Light & Power Plant, 57446, 605/994-2080, Delwyn Tisher, supt. 250 met.; gen. 200 kW eng.; pur. 3,742,467 kWh; rev. $109,237.*[3]

HOWARD, City of, Box 157, 57349, 605/772-4391, Bernard Mengenhausen, gen. supt., 632 met.; no gen.; pur. 10,158,133 kWh; rev. $347,368.*[5]

LANGFORD, Town of, Box 191, 57454, 605/493-6772, Orlyn Osness, town pres.; no gen.; pur. 2,450,983; rev. $88,680.(1935)[5]

MADISON Mun. Elec. Util., 116 W. Center St., Box 308, 57042, 605/256-4586, Virgil Schoeberl, supt.; 2,672 met.; pur. 49.6 million kWh; rev. $1,357,736. (1922)*[3]

McLAUGHLIN, City of, Box 392, 57642, 605/823-4428, Ron Dumdei, mayor; 450 met.; no gen.; rev. $224,049. (1969)*[5]

MILLER, City of, 120 W. Second St., 57362, 605/853-2705, Merle Dirksen, supt.; 1,017 met.; no gen.; pur. 25,177,719 kWh; rev. $567,574. (1904)[5]

ONIDA, City of, Mun. Light & Water Works, Box 72, 57564, 605/258-2231, Jerry Culey, supt.; 400 met.; gen. 550 kW oil (eng.); pur. 6,000,000 kWh; rev. $291,551. (1926)[3]

PARKER, City of, Box 265, 57053, 605/297-4453, Frisco D. Petersen, fin. officer; 560 met.; gen. 1,005 kW eng.; rev. $255,586.*[5]

PIERRE Mun. Elec., Box 1253, 57501, 605/224-7341, Dave Padgett, dir. pub. wks.; 5,541 met.; no gen.; pur. 105,685,105 kWh; rev. $3,696,080. (about 1900)*†[5]

PLANKINTON Light & Power Plant, Box 517, 57368, 605/942-7767, Edwin Lutz, light supt.; 367 met.; no gen. (1936)*[5]

SIOUX FALLS Municipal Light & Power, 2000 N. Minnesota Ave., 57104, 605/339-7150, Richard Willer, util. dir.; 1,860 met.; no gen.; pur. 56,063,072 kWh; rev. $1,795,499. (1905)[5]

TYNDALL Light & Water Plant, Box 29, 57066, 605/589-3481, Alfred J. Novotny, supt.; 620 met.; no gen.; pur. 10,171,779 kWh; rev. $362,615. (1911)*[3]

VERMILLION, City of, 25 Center St., 57069, 605/624-5246, James W. Antonen, city mgr.; 3,490 met.; gen. 2,300 kW oil (combus. eng.), pur. 37,083,000 kWh; rev. $1,542,154. (1915)*†[4]

VOLGA Mun. Light & Power, 108 Kasson Ave., 57071, 605/627-2341, Donald Brintnall, supt.; 600 met.; gen. 550 kW eng.; pur. 10,354,862 kWh; rev. $372,168. (1941)*[3]

WATERTOWN Mun. Utils.Dept., 901 Fourth Ave., S.W., 57201, 605/886-5733, Robert P. Swanson, asst. supt.; 8,741 met.; no gen.; pur. 156,293,078 kWh; rev. $5,195,458. (1923)*†[5]

WESSINGTON SPRINGS Mun. Light & Power, Box 443, 57382, 605/539-1691, Roger Larson, elec. supt.; 640 met.; no gen.; pur. 9,255,010 kWh; rev. $420,976. (1914)*[5]

WHITE, City of, Box 682, 57276, 605/629-8161, Arnold deBlonk, 221 met.; no gen.; pur. 3,070,098 kWh; rev. $248,634. (1978)*[5]

WINNER, City of, 217 E. Third St., 57580, 605/842-2606, Al Fisher, power supt.; 1,980 met.; no gen.; pur. 32,077,271 kWh; rev. $1,062,926. (1948)*†[5]

(Oglala Sioux Tribal Council, Pine Ridge, S.D., and Oglala Sioux Housing Authority, Pine Ridge, S.D., own electric systems which are operated under lease agreements by Nebraska Public Power District, Columbus, Neb.)

TENNESSEE

(All local publicly owned electric utilities in Tennessee are distributors of Tennessee Valley Authority power and purchase all of their power requirements from TVA.)

ALCOA Utils Bd. (formerly Blount Elec. Sys..) 264 Rankin Rd., Box 610, 37701, 615/982-4190, Mickey J. Bentley, city mgr.; 15,574 met.; no gen.; pur. 324.5 million kWh; rev. $14,764,768. (1956)*[4]

ATHENS Utils. Bd., Box 689, 37303, 615/745-4501, George H. Usry, gen. mgr.; 11,540 met.; no gen.; pur. 439,317,330 kWh; rev. $421,841,835. (1939)*†[5]

BENTON COUNTY BD. OF PUBLIC UTILITIES, 115 S. Church St., Camden, Box 445, 38320, 901/584-8251, Glenn C. Pafford, mgr.; 7,610 met.; pur. 162 million kWh; rev. $7,891,735. (1940)

BOLIVAR Elec. Dept., Box 188, 815 Tennessee St., 38008, 901/658-5257, Beryl F. Williams, gen. mgr.; 8,723 met.; no gen.; pur. 202,922,446 kWh; rev. $9,150,486. (1936)*†[5]

BRISTOL Elec. System, Box 549, 37621, 615/968-1526, R. Michael Browder, gen. mgr.; 24,621 met.; pur. 664,574,003 kWh; rev. $29,038,132. (1945)*†[5]

BROWNSVILLE Util. Dept., Box 424, 38012, 901/772-1213, John F. Sharpe, mgr.; 4,087 met.; pur. 103.6 million kWh; rev. $4,674,725. (1939)*[4]

CARROLL COUNTY Elec. Dept., Box 527, Huntingdon, 38344, 901/986-8284, J. B. McMillin, mgr.; 12,967 met.; no gen.; pur. 251,855,730 kWh; rev. $12,224,100. (1938)*[4]

CHATTANOOGA Elec. Power Bd., 6th & Market Sts., 37402, 615/629-3300, Kenneth S. Baxter, gen. mgr.; 128,248 met.; no gen.; pur. 4,831,624,939 kWh; rev. $223,229,811. (1935)*†[5]

CLARKSVILLE Dept. of Elec., Box 1007, 37041-1007, 615/648-8151, Dalton B. Smith, gen. mgr.; 21,635 met.; pur. 561,254,000 kWh; rev. $26,516,880. (1939)*[5]

CLEVELAND Utils., Box 2730, 37311, 615/472-4521, M.E. Beavers, gen. mgr.; 19,327 met.; pur. 667,276,800 kWh; rev. $30,514,117. (1939)*[5]

CLINTON Utils. Bd., Box 296, 37716, 615/457-9232, Byron H. Hale, gen. mgr.; 20,632 met.; pur. 488,624,836 kWh; rev. $22,693,312. (1939)[5]

COLUMBIA Power System, 201 Pickens Lane, Box 379, 38401, 615/388-4833, William M. Carroll, gen. mgr.; 15,591 met.; pur. 384,326,697 kWh; rev. $18,[illegible]29,927. (1939)*[5]

COOKEVILLE Elec. Dept., Box 998, 38503-0998, 615/526-9591, W.R. Holland, supt.; 9,606 met.; pur. 305,712,761 kWh; rev. $13,966,620. (1904)*[4]

COVINGTON Elec. System, Box 488, 38019, 901/476-7104, Leo Wingate Jr., mgr.; 3,033 met.; pur. 133,143,577 kWh; rev. $6,111,197. (1904)*[5]

DAYTON Electric, Box 226, 37321, 615/775-1818, Paul Hill, supt.; 6,125 met.; pur. 149.5 million kWh; rev. $6,462,913. (1927)[4]

DICKSON Elec. Dept., 121 S. Main St., Box 627, 37055, 615/446-9051, Ernest R. Brown, mgr.; 17,130 met.; pur. 343.8 million kWh; rev. $15,822,967. (1936)[4]

DYERSBURG Elec. System, Box 664, 38025, 901/285-2941, J.P. Crawford, mgr.; 9,821 met.; pur. 364,493,145 kWh; rev. $16,101,141. (1902)*†[4]

ELIZABETHTON Elec. System, Box 790, 37643, 615/542-2101, Frank L. Curde, mgr.; 18,856 met.; pur. 429,946,174 kWh; rev. $18,790,849. (1945)*[5]

ERWIN Utils., 244 Love Street, Box 201, 37650, 615/743-6191, Howard C. Brown, mgr.; 6,870 met.; pur. 171,464,400 kWh; rev. $7,512,128. (1945)[5]

ETOWAH Utils. Dept., Drawer N. 37331-0614, 615/263-9441, Paul R. Sitzlar, mgr.; 3,822 met.; pur. 108.9 million kWh; rev. $4,859,018. (1937)*[4]

FAYETTEVILLE Elec. System, Drawer E., 37334, 615/433-1522, Walter J. Szelich Jr., mgr.; 12,901 met.; no gen.; pur. 291,030,570 kWh; rev. $1,079,377. (1937)*[5]

GALLATIN, City of, Dept. of Elec., Box 167, 37066, 615/452-5152, William N. Parker, supt.; 7,377 met.; pur. 341,212,295 kWh; rev. $15,324,394. (1939)*[5]

GREENEVILLE Light & Power System, Box 420, 37743, 615/639-8121, Robert C. Lay, mgr.; 24,217 met.; pur. 652.9 million kWh; rev. $29,928,339. (1945)*[4] .

HARRIMAN Util. Bd., 300 Roane St., Box 434, 37748, 615/882-3242, Jack Howard, mgr.; 9,292 met.; pur. 246.9 million kWh; rev. $11,464,681. (1939)[4]

HUMBOLDT Utils., 207 S. Thirteenth Ave., 38343, 901/784-9212, Stan Little, gen. mgr.; 4,363 met.; no gen.; pur. 180,382,036 kWh; rev. $7,948,458. (1939)*†[5]

JACKSON Util. Div., 119 E. College, Box 68, 38302-0068, 901/422-7500, Joe H. Exum, gen. mgr.; 25,566 met.; no gen.; pur. 945,930,299 kWh; rev. $41,180,304. (1937)*†[5]

JELLICO Elec. System, Box 510, 400 S. Main St., 37762, 615/784-8431, John W. Leach Jr., mgr.; 4,189 met.; pur. 69.4 million kWh; rev. $3,322,379. (1935)[4]

JOHNSON CITY Power Bd., 100 N. Roan St., Box 1636, 37601, 615/928-2112, Roy L. Taylor, mgr.; 45,827 met.; no gen.; pur. 1,237,441,553 kWh; rev. $54,385,192. (TVA) (1945)*[5]

KNOXVILLE Utils. Bd.,626 Gay St., 37902, 615/524-2911, Edwin C. Hoskins, gen. mgr.; 135,659 met.; pur. 4,040,324,437 kWh; rev. $192,605,977. (TVA) (1938)*†[5]

LA FOLLETTE, City of, Elec. Dept., 301 N. Tennessee Ave., Box 1411, 37766, 615/562-3316, Leonard E. Watson, gen. mgr.; 14,459 met.; pur. 290.2 million kWh; rev. $13,667,118. (1939)*[4]

LAWRENCEBURG Power System, 1607 N. Locust Ave., Box 649, 38464, 615/762-7161, James W. Collins, supt.; 14,223 met.; pur. 300.6 million kWh; rev. $13,817,220. (1939)[4]

LEBANON City Pub. Wks. Dept., 410 Park Dr., 37087, 615/444-0825, Jessie Coe, mgr.; 6,587 met.; pur. 235 million kWh; rev. $10,168,147. (1942)[4]

LENOIR CITY Utils. Bd., 200 Depot St.,37771, 615/986-6591, Kenneth Dutton, mgr.; 26,253 met.; pur. 709,663,108 kWh; rev. $31,879,794. (1938)[5]

LEWISBURG Elec. System, 599 W. Ellington Pkwy., Box 90, 37091, 615/359-2544, Richard Turner, gen. mgr.; 4,284 met.; no gen.; pur. 185,237,457 kWh; rev. $8,857,053. (1938)*†[5]

LEXINGTON Elec. System, 92 Main St., 38351, 901/968-3662, Travis Lewis, mgr.; 15,532 met.; pur. 276,680,181 kWh; rev. $12,279,017. (1939)*†[4]

LOUDON Utils., Drawer E, Alma Place, 37774, 615/458-2091, James M. Smith, city mgr.; 4,519 met.; pur. 193.9 million kWh; rev. $8,188,785. (1935)*[4]

MARYVILLE Utils. Bd., 400 W. Broadway, Box 667, 37801, 615/984-7900, Tomie Burchfield, mgr.; 13,630 met.; pur. 299.2 million kWh; rev. $13,585,025. (1939)[4]

McMINNVILLE Elec. System, 200 Morford St., Box 608, 37110, 615/473-3144, Donald R. Collette, gen. mgr.; 5,807 met.; pur. 189,518,601 kWh; rev. $8,785,720. (TVA) (1939)*†[5]

MEMPHIS Light, Gas & Water Div., 220 S. Main, 38111, 901/528-4607, Larry Papasan, pres.; 318,883 met.; no gen.; pur. 9,485,400,414 kWh; rev. $439,716,636. (1939)*†[5]

MILAN Dept. of Pub. Util., 407 S. Second Street, 38358, 901/686-1537, Harold L. Crenshaw, supt.; 6,570 met.; no gen.; pur. 204,222,366 kWh; rev. $8,918,610. (1897)*[5]

MORRISTOWN Util. Comm., 441 W. Main St., 37814, 615/586-4121, James E. Akins, gen.mgr.; 10,612 met.; pur. 414,700,000 kWh; rev. $20,303,876. (1901)*†[5]

MOUNT PLEASANT Power System, Box 186, 38474, 615/379-3233, Dan Gibson Jr., mgr.; 3,105 met.; pur. 81,749,891 kWh; rev. $3,646,397. (1935)[5]

MURFREESBORO Elec. Dept., Box 9, 37133-0009, 615/893-5514, Larry D. Kirk, gen. mgr.; 16,661 met.; no gen.; pur. 621,966,000 kWh; rev. $27,798,615. (1939)*[5]

NASHVILLE Elec. Service, 1214 Church St., 37115, 615/747-3895, Norman Anderson, gen. mgr.; 223,785 met.; no gen.; pur. 8,517,649,428 kWh; rev. $385,675,053. (1939)*†[5]

NEWBERN Elec. Sys., Box J, 38059, 901/627-3221, Donald R. Campbell, dir. pub. works; 1,322 met.; pur. 30.8 million kWh; rev. $1,490,050. (1938)*[4]

NEWPORT Utilis. Bd., Box 519, 37821, 615/623-3074, Lindsay Boyd, gen. mgr.; 14,353 met.; pur. 322,129,437 kWh; rev. $14,784,525. (TVA) (1939)*[5]

OAK RIDGE, City of, Box 1, 37830, 615/483-5671, Phillip M. Marcum, supt.; 12,699 met.; pur. 332 million kWh; rev. $15,203,973. (1960)[4]

PARIS Bd. of Pub. Utils., Box 460, 38242, 901/642-1322, Charles R. Perry, supt.; 15,403 met.; pur. 406,784,249 kWh; rev. $17,537,256. (1938)*[5]

PULASKI Elec. System, Box 368, 38478, 615/363-2522, James A. Hanna, supt.; 12,012 met.; pur. 310,887,381 kWh; rev. $13,872,533. (1890)[5]

RIPLEY Power & Light Co., Box 69, 38063, 901/635-2323, Mike Allmand, mgr.; 5,476 met.; pur. 196,177,558 kWh; rev. $8,680,057. (1939)[*5]

ROCKWOOD Elec. Util., Box 108, 37854, 615/354-0514, Charles W. Johnson, gen. mgr.; 10,018 met.; pur. 216,056,000 kWh; rev. $10,210,219. (1939)[*5]

SEVIER COUNTY Elec. System, Box 716, Sevierville, 37862, 615/453-2887, George Seaton, supt.; 24,205 met.; pur. 567,601,522 kWh; rev. $27,555,957. (1939)[*5]

SHELBYVILLE Power System, Box 530, 37160, 615/684-7171, Eugene Crowell, mgr.; 6,466 met.; no gen.; pur. 217,688,400 kWh; rev. $10,114,337. (1939)[5]

SMITHVILLE Elec. System, Box 228, 37166, 615/597-4735, Mark Ashburn, mgr.; 2,108 met.; no gen.; pur. 62,694,720 kWh; rev. $3,026,182. (1969)[5]

SOMERVILLE Light, Gas & Water, 106 E. Court Square, 38068, 901/465-3676, Kennie German, mgr.; 1,252 met.; pur. 27.3 million kWh; rev. $1,275,517. (1936)[*4]

SPARTA Elect. Sys., Box 468, 38583, 615/738-2281, Wayne Rogers, mgr.; 2,484 met.; pur. 75 million kWh; rev. $3,197,019. (1962)[5]

SPRINGFIELD Dept. of Elec., 123 Fifth Ave., W., 37172, 615/384-3561, W. Royce Williams, supt.; 4,611 met.; pur. 138,475,181 kWh; rev. $6,535,544. (1905)[*†4]

SWEETWATER Utils. Bd., Box 191, 37874, 615/337-5081, Lewis Wayne Roach, gen. mgr.; 5,556 met.; pur. 145,907,050 kWh; rev. $6,843,726. (1939)[*5]

TRENTON, City of, Elec. Dept., 309 College St., 38382, 901/855-1561, Paul Bennett, mgr.; 2,443 met.; pur. 75.3 million kWh; rev. $3,379,726. (1938)[*4]

TULLAHOMA Utils. Bd., Box 788, 37388, 615/455-4515, Joe Loggins, gen. mgr.; 7,758 met.; pur. 221,137,464 kWh; rev. $10,117,629. (1947)[*5]

UNION CITY Elec. System, 312 N. Division St., Box 369, 38261, 901/885-9212, Stanley R. McMinn, system mgr.; 5,370 met.; pur. 319,842,612 kWh; rev. $13,621,378. (1952)[*5]

WEAKLEY COUNTY Mun. Elec. System, Box 170, Martin, 38237, 901/587-9521, Gerald Brooks, supt.; 16,423 met.; pur. 414,262,481 kWh; rev. $17,933,288. (1938)[*†5]

WINCHESTER Power System, 219 Second Ave. N.W., 37398, 615/967-2238, Lynn Bean, mgr.; 3,630, met.; pur. 94,969,697 kWh; rev. $4,324,400. (1935)[5]

TEXAS

AUSTIN Elec Util., Box 1088, 78767, 512/440-0400, John Moore, dir., elec. dept.; 214,744 met.; gen. 570,000 kW coal, 1,356,000 kW gas (oil backup), 5,815,014,000 kWh; sales 4,951,983,337 kWh; rev. $379,052,860. (1895)[*†5]

BARTLETT, City of, 140 W. Clark 76511, 817/527-3557, Mike Williams util. supt.; 700 met.; no gen. (1920)[5]

BASTROP Elec. Dept., 904 Main St., Box S, 78602, 512/321-3941, Ben Wesson, dir. of elec. serv.; 1,743 met.[3]

BELLVILLE, City of, Elec., Drawer 817, 77418, 409/865-3136, John Mumme, city adm.; 1,922 met.; no gen.; pur. 37,219,866 kWh; rev. $2,041,680. (1940)[3]

BOERNE, City of, Utils., Box 1677, 78006, 512/249-9511, Ronald C. Bowman, city admr.; 2,206 met.; no gen.; pur. 36,270,300 kWh. rev. $2,600,000. (1943)[*5]

BOWIE City of, 410 E. Pecan, 76230, 817/872-5612, Hank Cunningham, city mgr.; 2,924 met.; no gen.[4]

BRADY, City of, Power Plant, 212 W. Commerce, 76825, 915/597-2152, Lloyd Harris, elec. supt.; 3,600 met. (1912)[5]

BRAZOS RIVER AUTHORITY, 4400 Cobbs Dr., Box 7555, Waco, 76714-7555, 817/776-1441, Carson Hoge, gen. mgr.;1 met; gen. 22,500 kW hydro, 7,963,000 kWh; rev. $311,950. (1929)[5]

BRENHAM, City of, Mun. Light & Power System, 210 N. Park St., Box 1059, 77833, 409/836-7911, Dorothy Flisowski, mayor; 5,702 met.; no gen.; pur. 186,335,021 kWh; rev. $10,204,091. (1941)[5]

BRIDGEPORT Light & Power System, 812 Halsell, 76030, 817/683-5906, Walter Hales, mayor; 1,450 met.; no gen. (1926)[5]

BROWNFIELD Mun. Power and Light, 218 W. Main St., 79316, 806/637-4547, R. C. Fletcher, city mgr.; 4,619 met.; gen. 6,500 kW gas (combus. turbine), 16,420 kW dual-fuel (eng.), 5,911,100 kWh; pur. 57,244,800 kWh.; rev. $3,271,053. (1923)[5]

BROWNSVILLE Pub. Util. Bd., Box 3270, 78520, 512/542-6202, Bill Towers, gen. mgr.; 26,667 met.; gen. 103,000 kW, 44,000 kW dual-fuel gas (steam), 52,000 kW dual-fuel (comb. cycle), 7,000 kW hydro; 11,937,000 kWh; pur. 441,145,000 kWh; rev. $36,065. (1904)[*5]

BRYAN, City of, Utils., Box 1000, 77805, 409/779-5622, Dan Wilkerson, elec. oper. mgr.; 21,993 met.; gen. 227,500 kW, 205,500 kW steam turbine (dual-fuel), 22,000 dual-fuel (gas turbine), 332,830,500 kWh; pur. 66,806,322 kWh; rev. $40,544,062. (1919)[*5]

BURNET Utils., 127 E. Jackson St., 78611, 512/756-6093, Kenneth Taylor, city mgr.; 1,500 met.; no gen.; rev. $1,690,104.[4]

CALDWELL Mun. Light Dept., 107 S. Hill, 77836, 409/567-3271, Willis Gilliam, supt.; 1,700 met.; no gen.; pur. 35 million kWh; rev. $3,000,000.[5]

CASTROVILLE Util. Sys., Box 479, 78009, 512/538-2224, James W. McAnelly, util. mgr.; 746 met.; no gen.; pur. 10,486,740 kWh; rev. $680,564. (1948)[3]

COLEMAN Mun. Light & Power, Box 592, 76834, 915/625-2939, Sealy Bryar, supt.; 2,900 met.; gen. 12,500 kW, 2,250 kW gas-fired eng., 14,250 kW dual-fuel eng., 10.4 million kWh; pur. 31 million kWh; rev. $1,821,323. (1904)[5]

COLLEGE STATION, City of, 1101 S. Texas Ave., Box 9960, 77840-2499, 409/764-3510, North B. Bardell, city mgr.; 14,871 met.; no gen.; pur. 302,248,800 kWh; rev. $24,076,709. (1939)[5]

CUERO, City of, Box 512, 77954, 512/275-6114, James H. Pratt, city mgr.; 3,445 met.; no gen.; pur. 71,636,800 kWh; rev. $4,117,048.[5]

DENTON, City of, Utils., 215 E. McKinney, 76201, 817/566-8230, Robert E. Nelson, dir. of utils.; 22,354 met.; gen. 179,000 kW dual-fuel (steam turbine), sales 698,621,000 kWh; rev. $44,737,063. (1905)[*†5]

ELECTRA City of, 101 N. Main, 76360, 817/495-2146, Danny Neff, elec. supt.; 1,520 met.; gen. 3,450 kW, 2,200 kW gas-fired eng., 1,250 kW dual-fuel eng., 211,000 kWh; pur. 12,587,155 kWh; rev. $1,547,972. (1939)[3]

FARMERSVILLE, City of, 303 S. Main, 75031, 214/782-6151; Ron Holifield, city mgr.; 1,291 met.; no gen. (1930).[4]

FLATONIA Elec. Dept., Box 375, 78941, 512/865-3548; Doris Walker, city sec.; 928 met.; no gen.; pur. 19,162,557 kWh; rev. $1,017,898. (1945)[5]

FLORESVILLE Elec. Light & Power System, Box 218, 78114, 512/393-3131, Fred R. Wauters, gen. mgr.; 6,970 met.; no gen.; pur. 100,614,840 kWh; rev. $7,794,633. (1943)[5]

FLOYDADA Power & Light, Box 10, 79235, 806/983-2834, William A. Feuerbacher, city mgr.; 1,167 met.; gen. 13,700 kWh, 4,290 kW dual-fuel (eng.), pur. 14,410,390 kWh; rev. $1,107,760.(1939)[5]

FREDERICKSBURG, City of, Box 111, 78624, 512/997-7521, Allen Oestreich, dir. of pub. wks. and utils.; 4,009 met.; no gen.; pur. 70,948,131 kWh; rev. $3,924,013. (1935)[*5]

GARLAND Power & Light System, Box 469002, 75046, 214/494-7254, Robert E. Corder, elec. util. dir.; 50,407 met.; gen. 441,000 kW steam turbine (gas), 685,378,000 kWh; pur. 161,171,000 kWh; rev. $97,030,371. (1922)[*5]

GARRISON, City of, Box 207, 75946, 409/347-2201, Gena King, city sec.; 526 met.; no gen.; rev. $459,000.[5]

GEORGETOWN, City of, Box 409, 78626, 512/863-5533, Frank Reed, city mgr.; 9,511 met.; no gen.; pur. 130,000,000 kWh; rev. $7,967,721.[5]

GIDDINGS, City of, Lighting & Power System, 118 E. Richmond St., 78942, 409/542-2311, Larry Pippen, city mgr.; 2,203 met.; no gen.; pur. 38,704,040 kWh; rev. $2,745,221. (1941)[5]

GOLDTHWAITE, City of, 1218 Fisher St., Box 450, 76844, 915/648-3186, Dale Allen, city mgr.; 1,046 met.;pur. 13,390,000; rev. $816,110. (1941)[4]

GONZALES, City of, Box 547, 78629, 512/672-2815, Calvin E. Spacek, city mgr.; 3,300 met.; gen. 1,000-kW hydro. (1941)[5]

GRANBURY Mun. Utils., 111 S. Houston, Box 969, 76048, 817/573-1114, Robert Coffelt, city mgr.; 2,056 met.; no gen.; pur. 41,437,000 kWh; rev. $3,478,673. (1921)[4]

GREENVILLE, Mun. Lt. & Pwr. Co., Box 1049, 75401, 214/457-3137, William Taylor, dir. of elec. utils.; 11,132 met.; gen. 116,557 kW, 94,497 kW steam turbine (dual-fuel), 22,060 kW dual-fuel (eng.), 15,028,282 kWh; pur. 107,194,000 kWh; rev. $21,984,687. (1891)*5

GUADALUPE-BLANCO RIVER AUTHORITY, 933 E. Court St., Box 271, Seguin, 78155, 512/379-5822, John Specht, gen. mgr.; 1 met.; gen. 16,080 kW hydro, 27,548,000 kWh; sales 26,921,000 kWh; rev. $667,640. (1963)*5

HALLETSVILLE Mun. Utils., Box 257, 77964, 512/798-3681, Thomas H. Kostelnik, dir. pub. wrks., 1,700 met.; no gen. (1891)5

HEARNE Mun. Elec. System, 210 Cedar St., 77859, 409/279-3461, Dorothy Jo Lastor, city sec.; 2,410 met.; gen. 6,500 kW dual-fuel eng., 4,500 kW gas, 2,000 kW oil, 6,500 kW gas turbine; pur. 38,000,000 kWh; rev. $3,487,000. (1912)5

HEMPSTEAD, City of, 1125 Austin St., 77445, 409/826-2486, James Vines, mgr. of utils.; 1,716 met.; no gen.; pur. 29.3 million kWh; rev. $670,174. (1940)3

HONDO, City of, Elec. System, 1600 Ave. M, 78861, 512/426-3377, Oscar Dominguez, mgr.; 3,090 met.; no gen.; pur. 41,356,000 kWh; rev. $3,176,420. (1942)5

JASPER Light & Power, 272 E. Lamar St., 75951, 409/384-4651, Wayne DuBose, city mgr.; 4,113 met.; no gen.; pur. 119,618,340 kWh; rev. $6,116,465. (1948)*5

KIRBYVILLE Light & Power Co., 107 S. Elizabeth St., 75956, 409/423-2464, C. B. Herndon, mgr.; 1,100 met.; no gen.; pur. 15,647,468 kWh; rev. $1,438,047. (1974)5

LA GRANGE Elec. Utils., Box 339, 78945, 409/968-5805, Werner Von Minden, util. mgr.; 2,698 met.; no gen.; pur. 42.4 million kWh; rev. $2,560,070.4

LAMPASAS, City of, 302 E. Third St., Box 666, 76550, 512/556-3641, Carole Heller, city secy.; 3,500 met.; no gen.; pur. 62.2 million kWh; rev. $3,378,432. (1946)4

LEXINGTON Mun. Plant, Box 56, 78947, 409/773-2221, Jerry Poston, 533 met.; no gen.; pur. 7,706,700 kWh; rev. $433,156. (1938)5

LIBERTY, City of, 1829 Sam Houston St., 77575, 409/336-3684, Roy N. Bennett, city mgr.; 3,193 met.; no gen.; pur. 90,877,200 kWh; rev. $5,286,905. (1939)5

LIVINGSTON, City of, 200 W. Church, 77351, 409/327-4311, Tom Nevinger, city mgr.; 2,758 met.; no gen.; pur. 62,092,800 kWh; rev. $3,982,361. (approx. 1920)5

LLANO, City of, 301 W. Main St., 78643, 915/247-4158, George C. Rogers, mgr.; 1,608 met.; no gen.; pur. 28,483,100 kWh; rev. $1,586,025. (1946)5

LOCKHART, City of, 308 W. San Antonio St., Box 239, 78644, 512/398-3461, Cecil E. Massey, city mgr.; 3,648 met.; no gen.; pur. 53,680,800 kWh; rev. $3,143,735. (1928)5

LOWER COLORADO RIVER AUTHORITY, Box 220, Austin, 78767, 512/473-3200, S. David Freeman, gen. mgr.; 26,984 met. gen. 1,830,000 kW, 550,000 kW steam turbine (coal), 1,050,000 kW steam turbine (gas), 230,000 kW hydro, 6,308,035,000 kWh; pur. 70,192,590 kWh; rev. $270,702,143. (1935)*5

LUBBOCK Power & Light, Box 2000, 79457, 806/763-9381, Carroll McDonald, elec. utils. dir., 37,440 met.; gen. 200,500 kW, 89,000 kW steam turbine (gas), 56,500 kW dual-fuel, steam turbine, 30,500 kW gas amd 22,000 kW dual-fuel gas comb. turbine, 2,500 int. combus. eng., 563,365,710 kWh; pur. 155,288,000 kWh; rev. $44,445,517. (1916)*5

LULING, City of, Utils., Box 630, 78648, 512/875-2469, T.H. "Jack" Caffall; 2,573 met.; no gen.; pur. 42,901,300 kWh; rev. $2,739,396. (1941)5

MASON, City of, Box 68, 76856, 915/347-6449 or 6656, Lee E. Brollier Jr.; 1,526 met.; no gen.; pur. 15,715,272 kWh; rev. $1,006,828. (1955)5

MOULTON, City of, Box 369, 77975, 512/596-4621, Richard Kresta Jr., mgr.; 643 met.; no gen. (1939)5

NEW BRAUNFELS Utils., Box 289, 78130, 512/629-8400, Robert H. Sohn, gen. mgr.; 14,325 met.; gen. 900 kW hydro, 4,814,800 kWh; pur. 587,642,815 kWh; rev. $29,401,173. (1942)*5

NEWTON, City of, Box 889, 75966, 409/379-5061, Betty Simmons, city clerk; 846 met. (1936)4

PLAINS, City of, 601 E. 11th, Box 550, 79355, 806/456-2288, Viola Walker, city mgr.; 350 met.; no gen.; rev. $333,000.4

ROBSTOWN, City of Utils., 101 E. Main St., Box 71, 78380, 512/387-3554, John J. Foster, supt. of utils.; 4,478 met.; gen. 18,159 kW, 16,815 kW dual-fuel eng., 1,344 kW gas-fired eng., pur. 14,800,000 kWh; rev. $6,479,440. (1939)*3

SABINE RIVER AUTHORITY OF TEXAS, Box 569, Orange 77630, 409/883-9334, Sam Collins, gen. mgr. (The Texas and Louisiana Sabine River authorities jointly operated the 85,000-kW Toledo Bend Dam and sell the output to three private power companies.)

SAN ANTONIO City Pub. Service Box 1771, 78296, 512/227-3211, J.K. Spruce, gen. mgr.; 411,814 met.; gen. 836,000 kW coal, 2,400,000 kW gas; 9,691,522,900 kWh; pur. 7,675,000 kWh; rev. $620,951,615. (1942)*5

SAN AUGUSTINE, City of, 301 S. Harrison St., 75972, 409/275-2121, Alton Shaw, city mgr.; 1,102 met.; no gen.; pur. 19,666,800 kWh; rev. $1,090,51. (about 1917)5

SANGER Elec. System, Box 578, 76266, 817/458-7930, Lloyd Henderson, city mgr.; 1,200 met.; pur. 18,445,000 kWh, rev. $1,460,968. (1929)4

SCHULENBURG, City of, Box 8, 78956, 409/743-4126, S.M. Barrington, mgr.; 1,559 met.; no gen.; pur. 26,063,818 kWh; rev. $1,869,428. (1941)5

SEGUIN City of, Box 591, 78156-0591, 512/379-3212, Bill E. Polasek Jr., dir. utils & pub. works; 7,296 met.; sales 131,188,192 kWh; rev. $8,960,134. (1907)5

SEYMOUR, City of, Box 31, 76380, 817/888-3148, Mary Alice Smith, city sec.-treas.; 1,900 met.; no gen.; rev. $1,097,880. (1929)5 (In November 1985, 682 customers within city limits were acquired from Texas Electric Service Co., following a referendum.)

SHINER Light & Water Utils., Box 308, 77984, 512/594-3362, Johnny Kurtz, elec. supt.; 1,200 met.; no gen.5

SMITHVILLE City of, Utils., 317 Main St., Box 449, 78957, 512/237-3267, James D. Reader, mayor; 1,788 met.; no gen.; pur. 24,590,400 kWh; rev. $1,409,238. (1939)3

TEXAS A & M UNIVERSITY, Box 217, College Station, 77843, 409/845-1232, J.J. Estill, dir. elec. ops.; 724 met.; gen. 36,500 kW steam; pur. 32.8 million kWh. (State appropriation covers cost of electricity provided state university facilities.) (1930s)5

TIMPSON, City of, Box 369, 75975, 409/254-2421, W. H. Eddins, supt.; 650 met.; no gen.4

TULIA, City of, Power & Light, 201 N. Maxwell St., 79088, 806/995-3547, N.D. Waggoner, elec. util. dir.; 2,572 met.; gen. 17,636 kW dual-fuel eng., pur. 29,087,800; rev. $2,120,825. (1912)5

TRINITY RIVER AUTHORITY, Box 60, Arlington, 76010, 817/467-4343, Danny Vance, mgr. (The authority is considering development of a 60-MW hydro project at Lake Livingston.) (1955)5

UNIVERSITY OF TEXAS AT AUSTIN, Drawer 7580, Austin, 78712, 512/471-6241, H.T. Ward, util. dir.; 25 met.; gen. 64,000 kW steam, 280 million kWh; pur. 12 million kWh. (State appropriation covers costs of electricity provided state university facilities but some electricity sold to auxiliary facilities.) (1930s)5

WAELDER, City of, Box 427, 78959, 512/665-3131, Joe Parr, mayor; 421 met.; no gen.; pur. 6,093,420 kWh; rev. $404,052. (1927)4

WEATHERFORD, City of, 119 Palo Pinto St., 76086, 817/594-5441, James R. Dickason, dir. of utils.; 7,264 met.; gen. 6,150 kW oil (eng.), pur. 138,287,800 kWh; rev. $10,019,356. (1940)*5

WEIMAR, City of, 106 E. Main St., Box 67, 78962, 409/725-8554, F.E. Parks, city mgr.; 1,120 met.; no gen.; pur. 27,556,600 kWh; rev. $1,748,424. (1939)5

WHITESBORO Elec. System, Box 340, 76273, 214/564-3311, Faye Lynn Anderson, city admin.4

YOAKUM, City of, Utils., Box 738, 77995, 512/293-3148, Terry K. Roberts, city mgr.; 2,590 met.; no gen.; pur. 48,844,500 kWh; rev. $3,023,759.5

UTAH -

BEAVER CITY Corp., Box 271, 84713, 801/438-2451, Robert O. Christiansen, mayor; 999 met.; gen. 625 kW hydro, 4,419,800 kWh; pur. 14,287,125 kWh.; rev. $877,295.3

BLANDING Elec. Dept., 50 West 100 S., 84511, 801/678-2791, Francis D. Nielson, mgr.; 1,200 met.4

BOUNTIFUL Light & Power, 198 S. 200 West, 84010, 801/295-9496, Cliff Michaelis, dir., 10,881 met.; gen. 8,200 kW, 750 kW oil, 360 kW gas, 7,124 kW dual-fuel (comb. eng.) 102,000 kWh; pur. 186,929,574 kWh; rev. $6,628,000. (1935)*†5

BRIGHAM City Light & Power, 20 N. Main, Box A, 84302, 801/734-2001, Jim Davis, pub. util.

dir.; 5,351 met.; gen. 1,750 kW hydro, 12,014,300 kWh; pur. 61,609,520 kWh, rev. $3,571,873. (1905)*†[5]

ENTERPRISE, City of, Box 336, 84725, 801/878-2212, Richard P. Truman, supt.; 434 met.; no gen.; pur. 5,688,000 kWh. (1972)*†[3]

EPHRAIM City Light and Power Dept., 5 S. Main, 84627, 801/283-4631, Steve Olsen, mgr.; 950 met.; gen. 3,040 kW hydro.[5]

FAIRVIEW Mun. Light & Power, Box 97, 84629, 801/427-3858, Kent Miner, city admin.; 600 met.; no gen.; pur. 6,385,385 kWh; rev. $466,107. (1903)[5]

FILLMORE CITY, 96 S. Main St., Box 686, 84631, 801/743-5314, Dwight Day, city admin.; 960 met.; no gen.; pur. 26,121,000 kWh; rev. $1,487,000. (1918)*[5]

HEBER Light & Power Co., 31 S. 100 West, Box 330, Heber City, 84032, 801/654-1581, Ray Farrell, gen. mgr.; 3,500 met.; gen. 2,325 hydro, 10,859,000 kWh; pur. 33.4 million kWh; rev. $2,450,000. (1909)*[3]

HELPER CITY Corp., 73 S. Main, Box 221, 84526, 801/472-5391, Robert A. Farrell, councilman; 1,208 met.; pur. 14,114,430 kWh. (1900)[3]

HOLDEN Town Corp., Box 127, 84636, 801/795-2228, Neil Stevens, councilman; 180 met.; no gen.; pur. 2,424,297 kWh; rev. $132,378. (1922)[5]

HURRICANE City Power, Box 580, 84737, 801/635-2811, Rick Marchal, mgr.; 1,260 met.; no gen.; pur. 5,568,400 kWh; rev. $882,619. (1974)*[4]

HYRUM City Corp., 83 W. Main 84319, 801/245-6033, Bruce E. Darley, mayor; 1,411 met.; gen. 400 kW hydro, 2,541,616 kWh; pur. 23,259,088 kWh; rev. $1,777,204.*[4]

KANOSH Town Corp., Box 96, 84637, 801/759-2415, Frank Harding, mayor; 240 met.; no gen.; pur. 1,739,556 kWh; rev. $115.870 [5]

KAYSVILLE City Corp., 44 No. Main, 84037, 801/546-1235 Walt Meacham, supt. elec. dept.; 2,959 met.; no gen.; pur. 35,458,789 kWh; rev. $2,102,400. (1908)*[3]

LEHI CITY, 95 E. 100 North, 84043, 801/768-3545, Glen A. Carter, mgr.; 2,000 met.; no gen. (1926)[5]

LEVAN Mun. Elec. System, Box 143, 31550 2nd East, 84639, 801/623-1600, Golden Mangelson, mayor, 217 met.; no gen.; pur. 3,008,005 kWh; rev. $72,000. (1919)*†[3]

LOGAN, City of, Power & Light Dept., 61 W. 100 North St., Box 527, 84321, 801/752-3060, Vaun Bethers, supt., 13,000 met.; gen. 7,060 kW oil, 7,400 kW hydro, 9,483,000 kWh; pur. 163,353,750 kWh; rev. $9,156,091. (1903)*[5]

MANTI Light & Power, 191 N. Main 84642, 801/835-2401, Gene Rogers, mgr.; 900 met.[4]

MEADOW Town Corp., Box 180, 84644, 801/842-7281, Dennis L. Bond, councilman; 130 met.; no gen.; pur. 1,596,700 kWh; rev. $95,984.60. (est. 1910)[3]

MONROE City Elec. Light Dept., Box A, 10 N. Main, 84754, 801/527-3511, Doug Gadd, city elec. supvr.; 703 met.; gen. 568 kW hydro, 236,664 kWh; pur. 10,560,555 kWh; rev. $615,872.[5]

MORGAN City Corp., 48 W. Young St.,Box 267, 84050, 801/829-3461, Dennis D. Woolsey, power supt.; 770 met.; pur. 9,352,132 kWh; rev. $360,682. (1933)*[5]

MT. PLEASANT Mun. Elec. Light & Power, 115 W. Main St., Box L, 84647, 801/462-2456, Terence E. O'Connor, city admin.; 750 met.; gen. 300 kW hydro, pur. 12.5 million kWh; rev. $1,016,144. (1913)[5]

MURRAY City Power Dept., 4800 South 153 West, 84107, 801/264-2651, Jon C. Young, gen. mgr.; 12,957 met.; gen. 8,378 kW comb. turbine, 4,279,000 kWh; pur. 209,209,000 kWh; rev. $9,386,637. (1913)*[3]

NEPHI City Power, 21 E. 100 North, 84648, 801/623-0276, G. Richard Judd, supt.; 1,575 met.; gen. 900 kW hydro; pur. 35 million kWh; rev. $1,800,000. (1906)*[5]

OAK CITY, Town of, 84649, 801/846-2871, Alden Nielson, councilman; 215 met.; no gen.; pur. 2,911,521 kWh; rev. $176,203. (1926)*[5]

PARAGONAH Mun. Light Dept., 84760, 801/477-3605, Hazel Robinson, 165 met.; no gen.; pur. 1 million kWh.[5]

PAROWAN City Corp., 5 S. Main, 84761, 801/477-3331, M. DeLance Terry, head electrician; 900 met.; gen. 1,350 kW hydro, pur. 10.1 million kWh; rev. $903,684. (1929)[5]

PAYSON City Corp., 439 W. Utah Ave., 84651, 801/465-2589 or 2580, Ronnie Crump, 2,700 met.; no gen.; pur. 30,546,996 kWh; rev. $1,683,956. (1902)*†[5]

PRICE Mun. Corp., Box 893, 84501, 801/637-5010, Art Lee Martines, mayor, 3,500 met.; pur. 56,072,000 kWh; rev. $3,783,058.[5]

PROVO City Power, 251 W. 800 N., 84601, 801/373-7170, Bud L. Bonnett, dir.; 20,479 met.; gen. 24,000 kW, 7,500 kW coal, 6,500 kW gas (steam turbine),10,000 gas (eng.), 54,435 kWh; pur. 375,810,000 kWh; rev. $13,417,226. (1940)*†[4]

ST. GEORGE, City Util. Dept., 175 E. 200 N., 84770, 801/673-3593, Wayne M. McArthur, dir. of utils., 7,000 met.; gen. 5,000 kW diesel eng., 660,200 kWh; pur. 173,448,498 kWh; rev. $4,861,157. (1942)*[5]

SALEM City Power Dept., 30 W. 100 South, Box 901, 84653, 801/423-2770, Douglas R. Johnson, city council; 775 met.; no gen.; rev. $461,000. (1922)*[5]

SPANISH FORK, City of, 50 S. Main St., 84660, 801/798-3568, Robert Disbrow, supt., 3,549 met.; no gen.; pur. 48,323,076 kWh; rev. $2,636,378. (1919)*†[5]

SPRING CITY Corp., Box 189, 84662, 801/462-2244, Edward H. Sutliff, councilman, 320 met.; gen. 300 kW hydro; 1,300,000 kWh; pur. 2,100,000, rev. $290,000.[4]

SPRINGVILLE Mun. Corp., 50 S. Main, 84663, 801/489-3263, J. Brent Haymond, mayor; 4,717 met.; gen. 920 kW hydro, 5,283,360 kWh; pur. 46,270,664 kWh; rev. $2,716,100. (1906)[4]

VERMONT

BARTON, Village of, Box D, 05822, 802/525-6222, Orra White, supt.; 1,500 met.[4]

BURLINGTON Elec. Light Dept., 585 Pine St., 05401, 802/658-0300, Robert C. Young, gen. mgr.; 16,480 met.; gen. 81,400 kW, 26,500 kW steam, 28,000 kW gas turbine, 26,900 kW steam (wood-fired), 140,323,700 kWh; pur. 345,345,130 kWh: rev. $25,806,855. (1905)*†[5]

ENOSBURG FALLS, Water & Light Dept., Rt. 4, Box 80, 05450, 802/933-5544, Bernard C. Machia, supt., 1102 met.; gen. 890 kW oil (eng.), 750 kW hydro, 4,073,940 kWh; pur. 12,097,764 kWh; rev. $991,564. (1928)*[5]

HARDWICK Elec. Light Dept., 2 Church St., Box 516, 05843, 802/472-5201, William Fee, supt.; 3,200 met.; gen. 800 kW hydro, 600 kW Diesel eng., 2,786,080 kWh; pur. 28,803,815 kWh: rev. $2,089,533.[5]

HYDE PARK, Village of, Inc., Box 37, 05655, 802/888-2310, 827 met.; no gen.; pur. 11,413,530 kWh: rev. $551,507. (1895)*[5]

JACKSONVILLE, Village of, 05342, 802/368-7010, Ernest Behrens, pres.; 486 met.; no gen.; pur. 4,194,890 kWh; rev. $267,671. (1922)[4]

JOHNSON, Village of, Elec. Dept., Box 603, 05656, 802/635-2301, Kenneth Phelps, supt.; 650 met.; no gen.; rev. $935,032. (1894)[5]

LUDLOW Elec. Light Dept., Box 289, 05149, 802/228-7766, Howard R. Barton, supt.; 2,556 met.; no gen.; pur. 32,990,197 kWh: rev. $2,081,747. (1900)[5]

LYNDONVILLE Elec. Dept., 24 Main St., 05851, 802/626-3366, Kenneth C. Mason, mgr.; 3,700 met.; gen. 2,350 kW hydro, 8,152,154 kWh; pur. 44,895,481 kWh: rev. $3,370,644. (1896)*[5]

MORRISVILLE Water & Light Dept., Box 325, 05661, 802/888-4961, James C. Fox, supt.; 2,636 met.; gen. 4,600 kW hydro., 13,133,950 kWh; pur. 28,045,836 kWh: rev. $2,470,624. (1895)*[5]

NORTHFIELD, Village of, Elec. Dept., 26 S. Main St., 05663, 802/485-5411, Edgar Gadbois, supt.; 1,692 met.; no gen.; pur. 27,169,747 kWh; rev. $1,654,203. (1895)[5]

ORLEANS Village Inc., Memorial Square, 05860, 802/754-8584, Slayton R. Marsh, supt.; 583 met.; no gen.; pur. 15,813,240 kWh; rev $935,817. (1925)[5]

READSBORO, Village of, Elec. Light Dept., 114 Main St., Box 236, 05350, 802/423-7593, Robert Birch, supt.; 295 met.; no gen. (1936)[5]

STOWE Village of, Water & Light Dept., Main St., Box 190, 05672, 802/253-7215, Richard V. de Grasse, gen. mgr.; 2,384 met.; no gen.; pur. 45,972,470 kWh: rev. $4,019,439. (1896)[5]

SWANTON Village Elec. Dept., Box 279, 05488, 802/868-3397, Orman E. Croft, village mgr.; 2,668 met.; gen. 4,600 kW hydro, 19,961,820 kWh; pur. 32,376,964 kWh: rev. $2,916,023. (1894)*[5]

VIRGINIA

BEDFORD, City of, Drawer 807, 24523, 703/586-8963, Robert J. Schnabl, elec. util. dir.; 5,267 met.; gen. 950 kW hydro, 6,603,000 kWh; pur. 149,877,000 kWh; rev. $7,948,494. (1911)*[5]

BLACKSTONE, Town of, 100 W. Elm St., 23824, 804/292-7251, Richard H. Lee, town mgr.; 1,787 met.; pur 26,000,000 kWh; rev. $1,790,480. (1927)*[3]

BRISTOL Utils. Bd., 300 Lee St., 24203, 703/669-4112, Thomas E. Adams, gen. mgr.; 13,342 met.; no gen.; pur. 419,552,000 kWh; rev. $18,309,990. (1945)[5]

CULPEPER, Town of, 118 W. Davis St., 22701-3092, 703/825-8165, G.W. Griffin, town mgr.; 1,613 met.; gen. 6,616 kW, 1,600 kW oil turbine, 5,016 kW dual-fuel eng., 4,980,300 kWh; pur. 19,620,000; rev. $1,702,440. (1934)*[5]

DANVILLE, City of, Elec. Dept., Drawer 3308, 24543, 804/799-5270, John R. Sweeney, dir.; 41,321 met.; gen. 10,200 kW hydro; 18,202,700 kWh; pur. 591,884,000 kWh; rev. $30,635,682. (1886)*[5]

ELKTON, Town of, 173 W. Spotswood Ave., 22827, 703/298-1330, Gerald K. Monger, supt.; 730 met.; no gen.; pur. 13 million kWh; rev. $806,530. (1930s)*†[3]

FRANKLIN, City of, Elec. Dept., Box 179, 23851, 804/562-4111, Spurgeon R. Spivey, dir. of pub. util.; 3,738 met.; no gen.; pur. 78.9 million kWh; rev. $5,180,565. (1891)*[3]

FRONT ROYAL, Town of, Box 1560, 22630, 703/635-3111, Walter M. Duncan, town mgr.; 4,932 met.; no gen : pur. 85,987,000 kWh; rev. $4,178,745. (1894)*†[4]

HARRISONBURG Elec. Comm., 89 W. Bruce St., 22801, 703/434-5361, Kenneth L. Frantz, gen. mgr.; 8,524 met.; no gen.; pur. 269,556,000 kWh; rev. $15,409,320. (1957)*[5]

IRON GATE, Town of, Box 199, 24448, 703/862-0770, Joy M. Nicely, mayor; 225 met.; pur. 1,988,400 kWh; rev. $128,299. (1923)[5]

MANASSAS, City of, 9027 Center St., Box 512, 22110, 703/361-4104, Philip L. Young, supt., elec. dept.; 5,515 met.; gen. 4,000 kW eng., 562,800 kWh; pur 108,461,100 kWh; rev. $6,401,972. (1912)*†[3]

MARTINSVILLE, City of, Box 1112, 24112, 703/638-3971, ext. 184, Robert L. Corekin, dir.; 7,780 met.; gen. 1,300 kW hydro, 4,021,900 kWh; pur. 180,504,000 kWh; rev. $9,924,042. (1900)*†[5]

RADFORD, City of, 701-17th St., 24141, 703/639-4521, W.E. Willis, supt.; 5,179 met.; gen. 1,000 kW hydro; pur. 186,804,000 kWh; rev. $9,259,587. (1930)*[5]

RICHLANDS, Town of, 217 Railroad Ave., 24641, 703/964-2566, Garnet Sword, supt.; 2,800 met.; no gen.; pur. 56,967,092 kWh; rev. $2,906,925.*[5]

RICHMOND, City of, Pub. Utils., 600 E. Broad St., 23219, Daniel A. Lynch, dir.; gen. 3,149 kW hydro; 16,338,300 kWh; pur. 62,038,986 kWh; rev. $5,759,743. (1910)[4]

SALEM, City of, Box 869, 24153-0869, 703/375-3030, Reginald A. Oliver, supt.; 10,594 met.; no gen.; pur. 253,764,000 kWh; rev. $13,281,568. (1894)*[5]

VIRGINIA POLYTECHNIC Heat and Power Plant, Campus, Blacksburg, 24061, 703/961-7427, R.E. Powell, dir., util. ops.; 5,000 met.; gen. 7,050 kW steam; pur. 138.6 million kWh. (System serves Blacksburg and, with state financial support, university facilities.) (1920s)[5]

WAKEFIELD, Town of, Box 550, 23888, 804/899-2361, Daniel H. Smith Jr., mayor; 550 met.; no gen.; pur. 8,940,800 kWh; rev. $541,034. (1922)[5]

WASHINGTON

(Public Utility Districts, abbreviated PUD, are listed alphabetically by county names.)

BENTON COUNTY PUD No. 1, Box 6270, Kennewick, 99336, 509/582-2175, John Clayhold, mgr.; 31,771 met.; no gen.; pur. 1,346,728,165 kWh; rev. $37,476,922. (1934)*†[5]

BLAINE City of, Box 490, 98230, 206/332-8311, Dale A. Ennor, city mgr.; 1,316 met.; no gen.; pur. 39,970,650 kWh; rev. $1,285,814. (1907)*[5]

CASHMERE, City of, 101 Woodring St., 98815, 509/782-3513, David L. Simmer, supt.; 1,564 met.; no gen; pur. 46,617,750 kWh; rev. $793,172. (1908)[5]

CENTRALIA City Light, 1100 N. Tower Ave., 98531, 206/736-7611, William C. Cummings, supt.; 7,130 met.; gen. 10,400 kW hydro, 74,129,300 kWh; pur. 115,398,468 kWh; rev. $5,348,000. (1895)*[5]

CHELAN COUNTY PUD No. 1, Box 1231, Wenatchee, 98801, 509/663-8121, Gerald L. Copp, mgr.; 26,135 met.; gen. 1,883,050 kW, 400 kW diesel 1,882,650 kW hydro, 9,412,453,210 kWh; pur. 187,767,000 kWh; rev. $22,019,887. (1936)*†[5]

CHENEY City of, Light Dept., 609 Second St., 99004, 509/235-8431, Tom Richardson, dir.; 2,940 met.; no gen.; pur. 98,357,000 kWh; rev. $3,775,880. (1931)[5]

CHEWELAH, City of,Box 258, 99109, 509/935-8311, William D. Weaver, dir. pub works; 1,000 met; no gen.; pur. 20,764,022 kWh; rev. $662,336. (1929)[4]

CLALLAM COUNTY PUD No. 1, Box 1117, Port Angeles, 98362, 206/452-9771, Phillip K. Jackson, mgr.; 18,522 met.; no gen.; pur. 374,437,803 kWh; rev. $15,554,681. (1944)*†[5]

CLARK COUNTY PUD, Box C-005, Vancouver, 98668, 206/699-3386, W. Bruce Bosch, gen. mgr.; 85,501 met.; no gen.; pur. 2,595,600,598 kWh; rev. $92,324,846. (1938)*[5]

COULEE DAM, City of, Light Dept., Box 156, 99116, 509/633-1091, Donald E. Thoren, supt.; 573 met.; no gen.; pur. 20,932,877 kWh; rev. $561,574. (1959)[5]

COWLITZ COUNTY PUD No. 1, 960 Commerce Ave., Longview, 98632, 206/423-2210, Robert L. McKinney, gen. mgr.; 36,684 met.; gen. 70,000 kW hydro, 227,365,000 kWh; pur. 3,650,638,000 kWh; rev. $78,633,523. (1936)*†[5]

DOUGLAS COUNTY PUD No. 1, 1151 Valley Mall Pkwy., East Wenatchee, 98801, 509/884-7191, Fred W. Lieberg, mgr.; 10,950 met.; gen. 774,300 kW hydro, 3,564,630,000 kWh; pur. 956,603,000 kWh; rev. $27,433,872. (1945)*[5]

EATONVILLE Power & Light Co., Box 309, 98328, 206/832-3361, Joe Sander, supt.; 500 met.; no gen.; pur. 16,171,330 kWh; rev. $332,798. (1913)[3]

ELLENSBURG, City of, 420 N. Pearl St., 98926, 509/962-9863, ext. 223, Doug Williams, city mgr., 5,112 met.; no gen.; pur. 149,975,226 kWh; rev. $5,377,459. (1891)*[5]

FERRY COUNTY PUD No. 1, 686 S. Clark Ave., Box 324, Republic, 99166, 509/775-3325, Kenneth R. Coyle, mgr.; 2,173 met.; no gen.; pur. 56,739,540 kWh; rev. $2,101,983. (1936)[4]

FIRCREST, Town of, 115 Ramsdell St., Tacoma, 98466, 206/564-8900, James R. Valentine, town admn.; 2,155 met.; no gen.; pur. 41,624,802 kWh; rev. $1,091,932. (1925)[3]

FRANKLIN COUNTY PUD No. 1, Box 2407, Pasco, 99302, 509/547-5591, Kenneth R. Engstrom, mgr.; 15,311 met.; no gen.; pur. 583,337,000 kWh; rev. $17,284,546. (1934)*[5]

GRANT COUNTY PUD No. 2, Box 878, Ephrata, 98823, 509/754-3541, John L. McMahan, mgr.; 28,631 met.; gen. 1,619,750 kW hydro, 9,112,422,000 kWh; pur. 75,522,009 kWh; rev. $46,947,957. (1942)*†[5]

GRAYS HARBOR COUNTY PUD No. 1, 2720 Sumner Ave., Box 480, Aberdeen, 98520, 206/532-4220, Charles R. Fricke, gen. mgr.; 33,707 met.; no gen. pur. 1,141,751,734 kWh; rev. $42,947,241. (1938)*[5]

JEFFERSON COUNTY PUD No. 1, Jefferson County Courthouse, Port Townsend 18368, 206/385-5800, John Floyd, interim mgr.; (Jefferson County PUD No. 1 has preliminary permits for investigating two hydroelectric sites. It is currently studying these sites in conjunction with Tacoma (Wash.) Department of Public Utilities, with whom there is a joint agreement for ownership, construction and operation.*[5]

KITTITAS COUNTY PUD No. 1, 1400 E. Vantage Hwy., Ellensburg, 98926, 509/925-3164, Floyd M. Weir, mgr.; 1,835 met.; no gen.; pur. 42 million kWh; rev. $1,638,459. (1936)*[5]

KLICKITAT COUNTY PUD No. 1, 1313 S. Columbus, Goldendale, 98620, 509/773-5891, Alexander Thomson, gen. mgr.; 8,032 met.; no gen.; pur. 227,649,698 kWh; rev. $9,026,784. (1938)*[5]

LEWIS COUNTY PUD No. 1, Box 330, Chehalis, 98532, 206/748-9261, Gary H. Kalich, mgr.; 20,993 met.; gen. 700 kW hydro; 1,825,200 kWh; pur. 623,010,567 kWh; rev. $21,131,279. (1936)*[5]

MASON COUNTY PUD No. 1, N21971 Hwy 101, Shelton, 98584, 206/877-5249, John P. Robertson, mgr.; 3,723 met.; no gen.; pur. 51,824,160 kWh; rev. $2,426,513. (1936)*[5]

MASON COUNTY PUD No. 3, Box 490, Shelton, 98584, 206/426-8255, Dennis E. Rohr, gen. mgr.; 21,552 met.; no gen : pur. 380,657,910 kWh; rev. $17,521,760. (1939)*[5]

McCLEARY Light and Power, Box 360, 98557, 206/495-3667, Ron

Pittman, mayor; 862 met.; no gen.; pur. 36,207,025 kWh; rev. $1,224,465. (1948)*[5]

MILTON, Town of, Box "D," 98354, 206/922-8733, Dale O. Jones, supt. of pub. works; 1,200 met.; no gen.; pur. 32,238,660 kWh; rev. $1,124,124. (1945)[5]

OKANOGAN COUNTY PUD No. 1, Box 912, 98840, 509/422-3310, Harlan Warner, mgr.; 17,256 met.; no gen.; pur. 507,345,989 kWh; rev. $11,168,984. (1945)*[5]

PACIFIC COUNTY PUD No. 2, 405 Duryea St., Box 472, Raymond, 98577, 206/942-2411, Tim Dempsey, gen. mgr.; 13,569 met.; no gen.; pur. 236,582,861 kWh; rev. $7,014,003. (1940)[3]

PEND OREILLE COUNTY PUD No. 1, Box 190, Newport, 99156, 509/447-3137, Jim McCampbell, mgr.; 3,601 met.; gen. 60,000 kW hydro, 508,873,948 kWh; pur. 7,996,000 kWh; rev. $2,799,919. (1948)*[5]

PORT ANGELES City of, Light Dept., 240 W. Front, Box 1150, 98362, 206/457-0411, R.L. Saville, light dept. dir.; 8,468 met.; no gen.; pur. 628,727,532 kWh; rev. $18,543,564. (1893)*[5]

RICHLAND, City of, Energy Services, Box 190, 99352, 509/943-9161 ext. 208, J. Keith Sedore, dir.; 13,838 met.; no gen.; pur. 539,196,395 kWh; rev. $17,876,549. (1958)*[5]

RUSTON Elec. Util., 5117 N. Winnifred St., Ruston (Tacoma), 98407, 206/759-3544, Hubert Glenn Roberts, supt.; 426 met.; no gen.; pur. 4,938,570 kWh; rev. $86,048. (1928)[5]

SEATTLE City Light, 1015 Third Ave., 98104, 206/625-3000, Randall W. Hardy, supt.; 299,174 met.; gen. 1,446,054 kW, 1,309,670 kW hydro, 106,384 kW coal, 30,000 kW oil (steam turbine), 6,925,900,000 kWh; pur. 1,456,593,382 kWh, rev. $199,372,504. (1902)*†[5]

SKAMANIA COUNTY PUD No. 1, Box 500, Carson, 98610, 509/427-5126, William F. Yee, mgr.; 3,965 met.; no gen.; pur. 100,597,067 kWh; rev. $3,607,038. (1938)*[5]

SNOHOMISH COUNTY PUD No. 1, 2320 California Ave., Box 1107, Everett, 98206, 206/258-8211, Charles Earl, mgr.; 159,032 met.; gen. 105,000 kW coal (steam turbine), 112,000 kW hydro; 770,666,685 kWh; pur. 3,828,090,000 kWh; rev. $178,158,728. (1949)*†[5]

STEILACOOM, Town of, 1715 Lafayette St., 98388, 206/584-5750, Jim Richards, util. supt.; 2,262 met.; no gen.; pur. 38,493,400 kWh; rev. $1,406,272. (1914)[5]

SUMAS, City of, Cherry St., Box 9, 98295, 206/988-5711, Lawrence Silvis, util. supt.; 359 met.; no gen.; sales 7,027,729 kWh; rev. $257,981. (est. 1934)[3]

TACOMA, City of, Dept. of Pub. Utils., Light Div., Box 11007, 3628 S. 35th St., 98411, 206/383-2471, Paul J. Nolan, dir. of utils.; 111,349 met.; gen. 112,000 coal (steam turbine), 700,200 kW hydro, 2,815,828,000 kWh; pur 2,618,036,432 kWh; rev. $89,588,358. (1893)*†[5]

VERA WATER AND POWER DISTRICT No. 15, N. 601 Evergreen Rd., Box 630, Spokane, 99037, 509/924-3800, Joseph W. Custer, gen. mgr.; 5,366 met.; no gen.; pur. 148,531,270 kWh; rev. $4,768,884. (1938)*[5]

WAHKIAKUM COUNTY PUD No. 1, Box 248, Cathlamet, 98612, 206/795-3266; Charles W. Weber, gen. mgr.; 2,109 met.; no gen.; pur. 35,187,295 kWh; rev. $1,429,399. (1940)*[5]

WATERVILLE, Town of, Box 580, 98858, 509/745-8858, Carl E. Koenig, supt.; 495 met.; no gen.; pur. 14,634,000 kWh; rev. $318,126. (1902)[5]

WHATCOM COUNTY PUD, 215 Mason Bldg., Bellingham, 98225, 206/733-5810, Frank Spisak, mgr.; 1 met, no gen.; pur. 125,927,980 kWh; rev. $3,025,983. (1937)[5]

WEST VIRGINIA

NEW MARTINSVILLE Mun. Utils., Elec. Dept., 200 Leap St., 26155, 304/455-3442, W.L. Drennen, supt.; 1,825 met.; no gen.; pur. 28,350,000 kWh; rev. $1,430,660. (1929)*†[5]

PHILIPPI, City of,Electric, 108 N. Main St., 26416, 304/457-3700, Joseph P. Mattaliano, city mgr.; 1,663 met.; no gen.; pur. 27,158,400 kWh; rev. $1,373,046. (1932)*†[4]

WISCONSIN

ALGOMA Util. Comm., 520 Parkway Ave., 54201, 414/487-5556, Roland C. LeCloux, supt.; 1,795 met.; no gen.; pur. 30,608,000 kWh; rev. $1,701,126. (1903)*†[5]

ARCADIA Elec. Util., 115 S. Jackson St., 54612, 608/323-7347, Ronald L. Darbo, supt.; 1,160 met.; pur. 26,301,530 kWh; rev. $1,050,899. (1903)*[3]

ARGYLE Mun. Elec. & Water Dept., 53504, 608/543-3335, Rick Phillipson, supt.; 415 met.; gen. 1,540 kW oil-fired eng.; 50 kW hydro; 216,360 kWh; pur. 5,037,400 kWh.[5]

BANGOR Mun. Util., Box 68, 54614, 608/486-2151, Wesley Kjome, mgr.; 1,247 met.; no gen.; sales 25,674,000 kWh; rev. $1,159,085[4]

BARRON Light & Water Dept., 1303 E. Division Ave., 54812, 715/537-3855, David Hoff, util. supt.; 1,483 met.; gen. 4,370 kW, 4,300 kW oil-fired eng., 70 kW hydro, 317,100 kWh; pur. 28,210,000 kWh; rev. $1,295,505. (1908)*[5]

BELMONT Light & Water Util., 222 Mound Ave., Box 6, 53510, 608/762-5142, Dan Van Natta, pub wks. dir.; 544 met.; no gen.; pur. 5,157,600 kWh; rev. $274,903. (1900)[5]

BENTON, Village of, Box 91, 53803, 608/759-3721, Melvin Kreul, supt.; 426 met.; pur. 4,117,355 kWh; rev. $226,542. [4]

BLACK EARTH Elec. Util., 1210 Mills St., 53515, 608/767-2563, Dwayne Garfoot, dir of pub wks.; 883 met.; no gen.; pur. 10,616,400 kWh, rev. $629,757. [5]

BLACK RIVER FALLS Mun. Utils., 119 N. Water St., 54615, 715/284-9463, Loren Radcliffe, util. adm.; 2,233 met.; gen. 4,140 kW, 3,210 kW oil-fired, 930 kW hydro, 3.3 million kWh; pur. 33,496,000 kWh; rev. $1,941,332. (1904)*†[5]

BLOOMER Elec. Util., 1503 Main St., 54724, 715/568-3032, Charles H. Cole, mgr., 1,538 met.; no gen.; pur. 31,214,400 kWh; rev. $1,244,698. (1908)[3]

BOSCOBEL Utils., 240 Commercial Row, 53805, 608/375-5429, Bruce Folbrecht, mgr.; 1,547 met., no gen.; pur. 23,004,000 kWh; rev. $1,123,169. (1898)*†[3]

BRODHEAD Water & Lighting Comm., 1108 11th St., 53520, 608/897-2138, Carrol Sheafor, supt.; 1,550 met.; no gen.; pur. 23,617,000 kWh; rev. $1,143,342. (1913)[5]

CADOTT Light & Water Util., Village Hall, Box 37, 54727, 715/289-4282, Leona Hart, clerk; 595 met.; no gen.; pur. 9,268,800 kWh; rev. $408,247. (1901)[3]

CASHTON Mun. Light & Water, 709 Main St., 54619, 608/654-5160, John Hauser, supt., 456 met.; gen. 750 kW oil-fired eng., 1,163 kW dual-fuel eng.; 5,000 kWh; pur. 5,172,000 kWh; rev. $265,660. (1909)[5]

CEDARBURG Light & Water Comm., N30 W5926 Lincoln Blvd., Box 82, 53012-0082,, 414/377-1280, Glenn W. Frank, mgr.; 4,446 met.; no gen.; sales 84,300,000 kWh; rev. $4,859,890. (1914)*†[5]

CENTURIA Mun. Elec. Util., Box 280, 54824, 715/646-2300, Glenn Melin, comm. chmn.; 395 met.; no gen.; pur. 4,564,800 kWh; rev. $231,286. (1946)[5]

CLINTONVILLE Water & Elec. Util., 64 E. Twelfth St., Box 359, 54929, 715/823-3518, John H. Schroeder, supt.; 3,460 met.; no gen.; pur. 47,180,000 kWh; rev. $2,370,927.[5]

COLUMBUS Water & Light Dept., 361 N. Water St., 53925, 414/623-3100, Grant E. Allar, supt.; 1,944 met.; no gen.; pur. 35,151,200 kWh; rev. $1,574,461. (1899)[3]

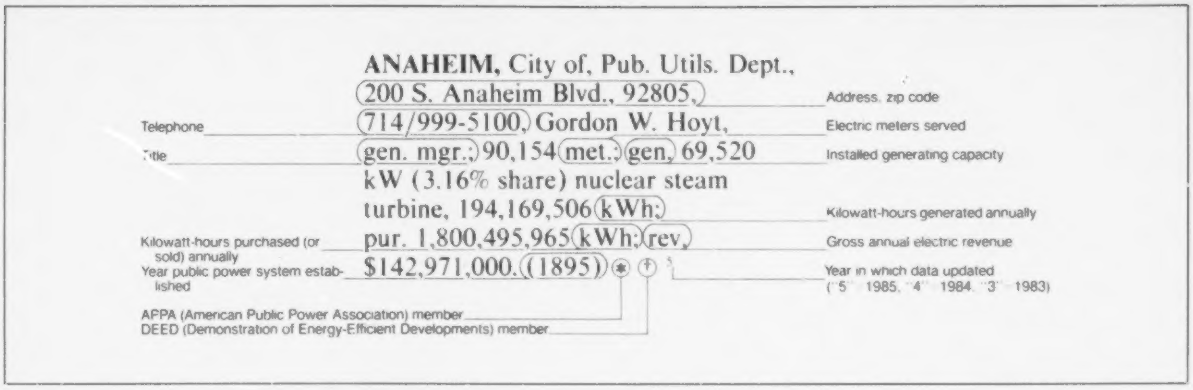
CORNELL Mun. Elec. Util., 222 Main St., Box 796, 54732, 715/239-6589, Ed Jenneman, utils. supv.; 753 met.; no gen.; pur. 9,448,000 kWh; rev. $431,547. (1937)[3]

CUBA CITY Mun. Utils., 108 N. Main, 53807, 608/744-2152, John H. Murphy, city coord.; 731 met.; no gen.; rev. $645,682. (1921)*†[5]

CUMBERLAND Mun. Util., 1265 Second Ave., Box 726, 54829, 715/822-8298 or 822-2595, Charles Christensen, gen. mgr.; 1,104 met.; gen. 10,914 kW, 8,650 kW oil-fired; pur. 21,695,197 kWh; rev. $1,337,775. (1898)*[3]

EAGLE RIVER, Light & Water Dept., 217 E. Division St., Box 218, 54521, 715/479-8121, Lee McFaul, mgr.; 1,217 met.; no gen.; pur. 20,954,400 kWh; rev. $1,186,123. (1898)*†[5]

ELKHORN Light & Water Comm., 23 W. Walworth St., Box 586, 53121, 414/723-2910, Anthony F. Biba, supt.; 2,452 met.; no gen.; pur. 55,123,106 kWh; rev. $3,172,060. (1898)*[5]


ANAHEIM, City of, Pub. Utils. Dept.,
200 S. Anaheim Blvd., 92805,
714/999-5100, Gordon W. Hoyt,
gen. mgr.; 90,154 met.; gen. 69,520
kW (3.16% share) nuclear steam
turbine, 194,169,506 kWh;
pur. 1,800,495,965 kWh; rev.
$142,971,000. (1895) * † ^{5}

Address, zip code
Telephone
Electric meters served
Title
Installed generating capacity
Kilowatt-hours generated annually
Kilowatt-hours purchased (or sold) annually
Gross annual electric revenue
Year public power system established
Year in which data updated ("5" 1985, "4" 1984, "3" 1983)
APPA (American Public Power Association) member
DEED (Demonstration of Energy-Efficient Developments) member

WISCONSIN
(continued)

ELROY Light & Water Util., 102 Liberty St., 53929. 608/462-8245, Royce Lockner, util. mgr., 911 met.; gen. 9,600 kWh dual-fuel eng.; pur. 16,473,442 kWh; rev. $675,620. (1899)^5

EVANSVILLE Mun. Elec. Util., 31 S. Madison St., 53536, 608/882-5214, L.E. (Verne) Gallman, supt., 2,306 met.; no gen.; pur. 41,193,600 kWh; rev. $1,920,924. (1902)^5

FENNIMORE Elec. & Water Plant, 860 Lincoln Ave., 53809, 608/822-6467, Charles J. Leuck, dir. pub. wks.; 1,175 met.; gen. 2,103 kW int. combus. eng., 163,500 kWh; pur. 20,234,606 kWh; rev. $966,971. (1904)*^{5}

FLORENCE Water & Light, Box 67, 54121, 715/528-3330, Robert Friberg, supt.; 795 met.; no gen.; pur. 7,981,208 kWh; rev. $438,350. (1898)*†^{5}

FOOTVILLE Elec. Comm., Center St., Box 187, 53537, 608/876-6581, Dale Kitelinger, supt.; 346 met.; no gen.; pur. 3,758,400 kWh. (1920)^5

GRESHAM Mun. Util., Box 50, 54128, 715/787-3244, Alvin Christ, supt.; 846 met.; gen. 825 kW hydro, 4,590,940 kWh; pur. 5,070,600 kWh; rev. $473,793. (1928)^5

HARTFORD Elec. Util., 109 Main St., 53027, 414/673-4000, L.M. Darin, dir.; 3,008 met.; no gen.; pur. 61,131,122 kWh; rev. $3,517,300. (1912)*†^{5}

HAZEL GREEN Elec. Util., Box 367, 1610 Fairplay, 53811, Box 367, 608/854-2953, Herman Richardson, dir. pub. wks.; 518 met.; no gen.; pur. 6,182,400 kWh; rev. $319,098. (1908)^3

HUSTISFORD Elec. Util., 53034, 210 S. Lake St., 53034, 414/349-3650, Steve Thompson, supt.; 1,057 met.; no gen.; pur. 13,784,400 kWh; rev. $761,807.^{5}

JEFFERSON Water & Elec. Dept., 121 W. Racine St., 53549, 414/674-3313, H. R. Waraczynski, mgr.; 3,180 met.; no gen.; pur. 83,407,752 kWh; rev. $3,668,590. (1901)*†^{3}

JUNEAU Util. Comm., Box 163, 53039, Joseph C. Renn, dir. of pub. works; 808 met.; no gen.; pur. 23,697,000 kWh; rev. $1,185,283. (1914)^5

KAUKAUNA Elec. & Water Dept., 777 Island St., 54130, 414/766-5721, Ernest J. Mullen, gen. mgr.; 8,657 met.; gen. 6,000 kW oil-fired (eng.), 20,000 kW gas (combus. turbine), 16,100 kW hydro, 116,699,917 kWh; pur. 623,000, kWh; rev. $17,644,262. (1912)*†^{5}

KIEL, City of, Utils., Box 98, 53042, 414/894-2669, Richard W. Wright, supt. of utils., 1,545 met.; no gen.; pur. 36,922,400 kWh; rev. $1,964,093. (1914)*†^{5}

LA FARGE Mun. Elec. Co., Box 838, 54639, 608/625-2333, Cecil Rolfe, mgr.; 758 met.; no gen.; pur. 4,937,461 kWh; rev. $285,805.^{5}

LAKE MILLS, City of, Light & Water Dept., 101 Church St., 53551, 414/648-2344, Thomas George Popp Jr., city mgr.; 2,634 met.; no gen.; pur. 45,400,631 kWh; rev. $2,313,167. (1911)*†^{5}

LODI Mun. Light & Water, City Hall, 113 S. Main St., 53555, 608/592-3246, Rodney Maier, supt.; 1,010 met.; no gen.; pur. 13,644,800 kWh; rev. $674,506. (1894)^5

MANITOWOC Pub. Utils., 1303 S. Eighth St., 54220, 414/683-4600, Edmund J. Garber, gen. mgr.; 14,735 met.; gen. 69,000 kW coal (steam turb.), 128,449,000 kWh; pur. 235,219,000 kWh; rev. $16,273,881. (1914)*^{5}

MARSHFIELD Elec.& Water Dept., 2000 S. Roddis Ave., 54449, 715/387-1195, Robert R. Pawelski, util. mgr.; 10,175 met.; gen. 35,000 kW, 29,000 kW steam turbine (coal), 6,000 kW gas (steam turbine); 67,902,400 kWh; pur. 179,116,000 kWh; rev. $12,445,599. (1904)*^{5}

MAZOMANIE Elec. Util., 133 Crescent St., Box 26, 53560, 608/795-2556, Dean G. Sanftleben, village electrician, 612 met.; no gen.; pur. 7,654,400 kWh; rev. $402,448. (1894)^5

MEDFORD Elec. Util., 330 S. Whelen Ave., 54451, 715/748-3211, Michael A. Frey, mgr.; 2,461 met; no gen.; pur. 66,277,554 kWh; rev. $2,955,171. (1944)*^{5}

MENASHA Elec. Util., 182 Main St., 54952, 414/729-5180, Stanley C. Martenson, comm. pres.; 6,495 met.; gen. 29,180 kW coal, 850 kW eng., 48,204 kWh; rev. $6,503,400. (1905)*†^{5}

MERRILLAN Mun. Elec. Util., 101 S. Main St., Box 70, 54754, 715/333-2332, Ted Meinholdt, util. supt.; 240 met.; gen. 799 kW, 724 kW oil-fired eng., 75 kW hydro, 331,100 kWh; pur. 2,633,797 kWh; rev. $142,544. (1904)^3

MT. HOREB Elec. Util., 138 E. Main St., 53572, 608/437-3084, Elwin K. Bendickson, mgr.; 1,993 met.; no gen.; pur. 30,571,200 kWh; rev. $1,381,408. (1939)^3

MUSCODA Light & Water Comm., 109 N. Second St., 53573, 608/739-3390, Jay R. Goers, supt., 950 met.; no gen.; pur. 14,696,487 kWh; rev. $753,029. (1907)*†^{5}

NEW GLARUS Mun. Light & Water Wks., 313 2nd St., 53574, 608/527-2913, Orville R. Jorenby, supt.; 877 met.; no gen.; pur. 14,340,000 kWh; rev. $497,983. (1902)^5

NEW HOLSTEIN Pub. Util., 2110 Washington St., 53061, 414/898-5776, Ernest R. Dyer, supt.; 1,982 met.; no gen.; pur. 2,422,165 kWh; rev. $2,797,088. (1912)*†^{5}

NEW LISBON Mun. Light & Water Dept., 218 E. Bridge St., 53950, 608/562-3103, Fred J. Lorenz, supt., 695 met.; gen. 4,439 kW dual-fuel.^{5}

NEW LONDON Util., Box 304, 54961, 414/982-2650, Richard Maas, mgr.; 2,988 met.; no gen.; pur. 122,128,124 kWh; rev. $5,941,722. (1903)*†^{5}

NEW RICHMOND, City of, 156 E. First St., 54017, 715/246-4167, Dennis Horner, mgr., 2,199 met.; no gen.; pur. 42,805,900 kWh; rev. $1,844,159. (1890)*†^{5}

OCONOMOWOC, City of, Utils., 174 E. Wisconsin Ave., 53066, 414/569-2198, A. Edwin McDivitt, dir. of utils.; 5,440 met.; no gen.; pur. 114,486,693 kWh; rev. $5,702,704. (1900)*†^{5}

OCONTO FALLS Water & Light Comm., 104 S. Franklin, 54154, 414/846-3575, Gary Haltaufoerheide.; 1,189 met.; no gen.; pur. 16,547,272 kWh; rev. $871,467. (1933)*^{4}

PARDEEVILLE Elec., 124 Lake St., 53954, 608/429-3054, Larry Brown, dir. pub. wks.; 935 met.; gen. 50 kW hydro, 78,490 kWh, pur. 12,734,400 kWh; rev. $470,534. (1945)^4

PLYMOUTH Utils. Comm., 12 S. Milwaukee St., Box 267, 53073, 414/893-1471, John T. MacKinnon, mgr., 5,149 met.; no gen.; pur. 112,728,000 kWh; rev. $5,155,011. (1895)^4

PRAIRIE DU SAC Mun. Elec. Util., 560 Park Ave., 53578, 608/643-2421, Dorothy Bostad, village clerk; 1,025 met.; no gen.; pur. 14,542,200 kWh; rev. $773,486. (1918)^5

PRINCETON Light & Water, 438 W. Main St., 549[illegible]8, 414/295-6612, Duane G. Norem, mgr.; 877 met.; no gen.; pur. 10,657,200 kWh; rev. $520,766. (1902)^5

REEDSBURG Elec. Util., 344 S. Willow, 53959, 608/524-4381, Robert D. Utley, supt.; 2,678 met.; no gen.; pur. 89,617,500 kWh; rev. $3,824,526. (1894)[5]

RICE LAKE Elec. Util., 320 W. Coleman St., 54868, 715/234-7004, John E. Brandt, supt.; 4,000 met.; no gen.; pur. 96 million kWh; rev. $4.3 million. (1918)[5]

RICHLAND CENTER Mun. Utils., Box 29, 53581, 608/647-4448, Richard J. Steiner, util. admr.; 2,765 met.; gen. 7,500 steam turbine, 20,393,700 kWh; pur. 45,190,000 kWh; rev. $3,700,268. (1904)*[5]

RIVER FALLS Mun. Util., 125 E. Elm St., 54022, 715/425-6715, Elmer K. Thon Jr., util. adm.; 3,362 met.; gen. 13,032 kW, 4,392 kW oil, (eng.), 8,265 kW dual-fuel, (eng.), 375 KW hydro; 2,359,905 kWh; sales 63,255,081 kWh; rev. $3,185,129. (1900)*†[5]

SAUK CITY Elec. & Water Dept., 806 Water St., 53583, 608/643-8336, or 643-3932, Donald Moen, util., supt.; 1,261 met.; no gen.; pur. 22 million kWh; rev. $1,079,709. (1909)[3]

SHAWANO Mun. Utils., 122 N. Sawyer St., 54166, 715/526-3131, Lloyd (Lee) A. Ebert, gen. mgr.; 4,249 met.; no gen.; pur. 140,844,000 kWh; rev. $6,651,972. (1900)*[5]

SHEBOYGAN FALLS Utils., 511 Adams St., 53085, 414/467-6446, Robert Selchert, supt., 2,730 met.; no gen.; pur. 108,554,400 kWh; rev. $4,534,656. (1916)[5]

SHULLSBURG Elec. Util., 112 S. Gratiot St., Box 580, 53586, 608/965-4901, Ronald Schardt, electrn; 710 met.; no gen.; pur. 8,187,554 kWh; rev. $483,853. (1937)[5]

SLINGER Utils., 220 Slinger Rd., 53086, 414/644-5265, Dean A. Otte, village clerk; 751 met.; no gen.; pur. 11,764,800 kWh; rev. $581,034. (1911)*†[3]

SPOONER Mun. Util, 618 Smoth St., 54801, 715/635-8769, Melvin E. Anderson, supt.; 1,100 met.; no gen.; pur. 20,013,600 kWh; rev. $865.065. (1905)[4]

STOUGHTON Elec. Util., 211 Water St., Box 383, 53589, 608/873-3379, Robert P. Kardasz, supt.of utils.; 5,321 met.; no gen.; pur. 80,355,700 kWh; rev. $3,839,973. (1890)[5]

STRATFORD Mun. Water & Elec. Util., 54484, 715/687-4118, W.F. Lange, supt.; 657 met.; no gen.; sales 7,344,000 kWh; rev. $447,151. (1920)[4]

STURGEON BAY Combined Utils., Box 249, 54235, 414/743-5542, William Baudhuin, gen. mgr.; 6,493 met.; no gen.; pur. 112,992,000 kWh; rev. $6,428,006. (1904)*†[5]

SUN PRAIRIE Water & Elec. Comm., 124 W. Main St., 53590, 608/837-5500, Larry Bocock, supt.; 5,289 met.; no gen.; pur. 91,422,000 kWh; rev. $4,290,853. (1910)*†[5]

TREMPEALEAU Mun. Elec. Dept., 50 E. Third St., Box 247, 54661, 608/534-6434; Duane Freuchte, chief officer; 725 met.; no gen.; pur. 7,955,200 kWh; rev. $360,389. (1915)[5]

TWO RIVERS Water & Light Dept., Box 87, 54241, 414/793-5549, William C. Pappathopoulos, dir. util.; 5,653 met.; no gen.; pur. 70,971,600 kWh; rev. $3,863,034. (1901)*†[5]

VIOLA Mun. Elec. Util., Box 38, 54664, 608/627-1829; Kirby Hamilton, mgr.; 325 met.; gen. 1,076 kW oil-fired eng.; 11,400 kWh.[5]

WATERLOO Water & Light Comm., 133 Polk St., 53594, 414/478-2260, John Foley, supt.; 1,434 met.; no gen.; sales 36,134,000 kWh; rev. $1,850,406. (1908)*†[5]

WAUNAKEE Water & Light, 205 Klein Dr.,53597, 608/849-8111, Edward L. Brockner, supt.; 1,787 met.; no gen.; sales 30,390,000 kWh; rev. $1,638,911. (1915)*†[5]

WAUPUN Pub. Utils., 220 N. Forest St., 53933, 414/324-3556, Albert F. Leu, mgr.; 3,350 met.; no gen.; pur. 58,298,823 kWh; rev. $2,684,203. (1894)*†[5]

WESTBY Elec. & Water Util., 104 First St., 54667, 608/634-3416, Dean Warren, supvr.; 881 met.; no gen.; pur. 15,348,800 kWh; rev. $699,262. (1915)*†[5]

WHITEHALL Mun. Elec. Util., 1631 Main St., 54773, 715/538-4353, Gary Fromm, elec. supt.; 833 met.; no gen.; pur. 18,227,015 kWh; rev. $831,948. (1940)*†[5]

WISCONSIN DELLS Elec., 300 LaCrosse St., 53965, 608/253-2542, Kenneth D. Weber, dir. pub. wks.; 1,603 met.; no gen.; pur. 32 million kWh; rev. $1,570,246. (1894)[5]

WISCONSIN RAPIDS Water Wks. & Lgt. Comm., 221 Sixteenth St. S., 54494, 715/423-6300, Robert F. Dickinson, gen. mgr.; 10,411 met.; no gen.; pur. 172,069,600 kWh; rev. $9,294,474. (1890)*[5]

WONEWOC, Village of, Elec. Util., Box 303, City Hall, 53968, 608/464-3114, Peter A. Carr, sec.; 577 met.; no gen.; pur. 5,492,800 kWh; rev. $246,186.[5]

WYOMING

BASIN Mun. Light & Water Plant, Box 599, 82410, 307/568-3331, Dick Sanders, supt.; 680 met.; no gen. (1920s)[4]

CODY, City of, 1338 Rumsey Ave., 82414, 307/527-7514, Neal T. Olson, supt., elec. dept., 3,540 met.; no gen.; pur. 46,837,520 kWh; rev. $3,542,706. (1935)[5]

DEAVER Utils., 82421, 307/664-2350, Hyram Beaver, mayor; no gen.[4]

FORT LARAMIE, Town of, Box 177, 82212, 307/837-2711, Vicki Bowsher, clerk-treas.; 160 met.; no gen.; pur. 1,334,400 kWh; rev. $68,868.[5]

GILLETTE Mun. Elec. Util., Box 3003, 82716, 307/686-5265, Glen W. Taylor, dir. pub. wks.; 6,982 met.; no gen.; pur. 133,733,000 kWh; rev. $8,242,622. (1915)*†[4]

GUERNSEY Elec. Dept., 82214, 307/836-2522, Charles M. (Pete) Green, town supt.; 607 met.; no gen.; pur. 6,000,000 kWh; rev. $1,207,065.[3]

LINGLE, Town of, 82223, 307/837-2422, Harry Bremer, supt.; 276 met.; no gen.; pur. 2,629,968 kWh; rev. $24,861.[3]

LUSK, Town of, Box 390, 82225, 307/334-3612, Alvin G. Titchener, supt. pub. wks.; 1,500 met.; no gen.; pur. 13,610,400 kWh; rev. $571,579. (1919)[5]

PINE BLUFFS, Town of, Box 378, 82082, 307/245-3746, Ronald Spier, supt.; 780 met.; no gen.; pur. 9,045,524 kWh; rev. $430,285. (approx. 1910)[5]

POWELL, City of, 270 N. Clark St., Box 1008, 82435, 307/754-5106, Jack Young, supt.; 2,400 met.; no gen.; sales 36 million kWh; rev. $1.5 million. (1921)*[4]

TORRINGTON, Town of, 2042 E. A St., 82240, 307/532-2422, Lawrence Mitchell, supt.; 3,257 met.; no gen.; pur. 48,123,473 kWh; rev. $1,624,108. (1914)*[4]

WHEATLAND, Town of, 600 9th St., 82201, 307/322-2962, James Dunham, town clk.; 1,914 met.; no gen.; pur. 2,045,126 kWh; rev. $1,197,278. (1936)[5]

AMERICAN SAMOA

AMERICAN SAMOA POWER AUTHORITY, Pago Pago, American Samoa, Box PPB, 96799, 684/633-5251, James A. Carriere, exec. dir.; 6,141 met.; gen. 19,400 kW oil-fired (eng.), 6,000 kW gas turb., 2,000 kW comb. cyc.; 72 million kWh; pur. none; rev. $9,500,000.*[5]

CANAL ZONE

PANAMA CANAL Commission, Building 66A, APO Miami 34011-5000, phone 011-507-52-4421, Rene Van Hoorde, chief, elec. div.; 2,934 met.; gen. 153,500 kW, 55,000 kW oil, 40,000 kW gas turbine, 58,500 kW hydro, 529 million kWh; pur. 4 million kWh; rev. $33.5 million. (1914)[5]

GUAM

GUAM POWER AUTHORITY, Box 2977, Agana, Guam, 96910-2977, 671/477-1900, Joaquin P. Perez, gen. mgr.; 25,748 met.; gen. 178,500 kW, 158,500 kW oil-fired (steam), 20,000 kW oil-fired engine, 789.6 billion kWh; pur. none; rev. $60,869,000. (1968)*[5]

PUERTO RICO

PUERTO RICO ELECTRIC POWER AUTHORITY, Box 4267, San Juan, P.R., 00926, 809/721-4232, Eng. Carlos M. Alvarado, exec. dir.; 1,038,770 met.; gen. 3,080,000 kW oil (steam turbine), 418,000 kW oil (combus. turbine), 592,000 kW oil (comb. cycle), 2,500 kW oil (eng.), 98,180 kW hydro; 16,000 kW other (jet); 12,280,847,675 kWh; sales 10,154,667,000 kWh; rev. $1,080,277,000. (1941)*[5]

VIRGIN ISLANDS

VIRGIN ISLANDS WATER AND POWER AUTHORITY, Box 1450, St. Thomas, U.S. Virgin Islands, 00801, 809/774-3552, Raymond L. George, exec. dir.; 40,275 met.; gen. 208,700 kW, 78,900 kW steam turbine; 107,090 kW gas (combus. turbine); 16,500 kW int. combus. eng.; 482,568,000 kWh; sales 372.8 million kWh; rev. $62,858,000. (1965)*†[5]

ORGANIZATIONS OF LOCAL SYSTEMS

JOINT-ACTION AGENCIES

Alabama

ALABAMA MUNICIPAL ELECTRIC AUTHORITY, Drawer 5220, Montgomery, 36103, 205/262-1126; Sewell St. John Jr., Foley, chmn.; Robert W. Claussen, gen. mgr.; 12 members: Alexander City, Dothan, Fairhope, Foley, Lafayette, Lanett, Luverne, Opelika, Piedmont, Sylacauga, Troy, Tuskegee. (estbl. 1981)*

Arizona

ARIZONA POWER POOLING ASSOCIATION, Box 670, Benson, Ariz. 85602; 602/723-3700; A.J. Faul, Coolidge, pres., Rt. 1, Box 69, Coolidge, Ariz. 85228; 3 members: Mesa, Electrical District No. 2 of Pinal County, Arizona Electric Power Cooperative.*

California

CENTRAL CALIFORNIA POWER AGENCY, 6701 4th Ave., Sacramento, Cal. 95817; 916/732-6200; Dallas Raasch, Sacramento, chmn.; 4 members: Sacramento Municipal Utility District, Modesto Irrigation District, Santa Clara, Redding. (estbl. 1981)

M-S-R PUBLIC POWER AGENCY, Box 4060, Modesto, Cal. 95352; 209/578-1212; Archer F. Pugh, Redding, chmn.; Charles S. Viss, Modesto Irrigation District, gen. mgr.; 136 MW of San Juan Generating Station Unit 4, dry steam production at Northern California exploratory drilling site; participation in Mead-Phoenix transmission studies; 3 members: Modesto Irrigation District, Santa Clara, Redding.

NORTHERN CALIFORNIA POWER AGENCY, 180 Cirby Way, Roseville, Cal. 95678, 916/781-3636; Hays Hickey, Ukiah, chmn.; Michael W. McDonald, gen. mgr.; $1.4 billion bonds sold; 110-MW Geothermal Project No. 2 operational; 110-MW Geothermal Project No. 3 under construction; 205-MW Hydroelectric Project No. 1 under construction; 125-MW combustion turbine project under construction; 12 members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Palo Alto, Redding, Roseville, Santa Clara, Ukiah, Plumas-Sierra Cooperative. (estbl. 1968)*

SOUTHERN CALIFORNIA PUBLIC POWER AUTHORITY, 613 E. Broadway, Glendale, Cal. 91205; 213/956-2045; Fred Kray, pres.; Arthur T. Devine, exec. dir.; 5.91 percent (225 MW) of Palo Verde Nuclear Project, southern transmission system of the Intermountain Power Project licensing and feasibility studies in progress for Mead-Phoenix direct current transmission line; 11 members: Anaheim, Azusa, Banning, Burbank, Colton, Glendale, Imperial Irrigation District, Los Angeles, Pasadena, Riverside, Vernon. (estbl. 1980)*

SOUTHERN CALIFORNIA UTILITY POWER POOL, c/o Los Angeles Dept. of Water and Power, 111 N. Hope St., Room 1255, Box 111, 90051, 213/481-6003, Raymond C. Burt, Los Angeles, exec. comm. chmn.; projected: 7,403 MW (members' total capacity); 4 members: Burbank, Glendale, Los Angeles, Pasadena. (estbl. 1982)

TRANSMISSION AGENCY OF NORTHERN CALIFORNIA (TANC), Box 661020, Sacramento, Cal., 95866, 916/924-1197; Archer F. Pugh, chmn.; Lloyd Harvego, exec. asst.; 15 members: Alameda, Biggs, Gridley, Healdsburg, Lodi, Lompoc, Modesto Irrigation District, Palo Alto, Redding, Roseville, Sacramento Municipal Utility District, Santa Clara, Turlock Irrigation District, Ukiah, Plumas-Sierra Rural Elec. Co-op. (estbl. 1984)

Colorado

ARKANSAS RIVER POWER AUTHORITY, 103A E. Elm, Box 70, Lamar, Colo. 81052; 303/336-3496; John Lackey, Raton, N.M., pres.; James M. Henderson, gen. mgr.; pur. 153,000,000 kWh; rev. $4,386,000; projected: 80 MW-120 MW coal plant; 8 members: Holly, Lamar, La Junta, Las Animas, Springfield, Trinidad, Walsenburg, Colo., and Raton, N.M.*

PLATTE RIVER POWER AUTHORITY, Timberline & Horsetooth Roads, Fort Collins, Colo. 80525, 303/226-4000; Bob Dekker, Estes Park, chmn.; James D. Pendergrass, gen. mgr.; current: 409,000 kW coal, gen. 2,031.1 million kWh, pur. 1,094 million kWh; rev. $119,391,000; 4 members: Estes Park, Fort Collins, Longmont, Loveland. (estbl. 1973)†*

Connecticut

CONNECTICUT MUNICIPAL ELECTRIC ENERGY COOPERATIVE, 268 Thomas Rd., Groton, Conn. 06340, 203/446-0620; Joseph Walz, chmn.; Maurice R. Scully, exec. dir.; 20 staff; sales 836,621,994 kWh; peak demand 132.4 MW; $90.21 million bonds issued; life-of-unit contracts to 164 MW; 70 MW nuclear, 75 MW oil-fired, 12 MW pumped storage, 13 MW hydro; 12-MW share of Millstone 3 nuclear unit; Hydro-Quebec interconnection 1% participant; designated bargaining agent for state of Connecticut for hydro power from New York Power Authority; 3 participants: Groton, Norwich, Jewitt City. (estbl. 1976)*†

Delaware

DELAWARE MUNICIPAL ELECTRIC CORP., care of City of Newark, Box 390, Newark, Del. 19711; 302/366-7070; Harry M. Odren, Smyrna, bd. chmn.; Albert K. Martin, Newark, pres.; 6 members: Clayton, Middletown, Milford, Newark, New Castle, Smyrna. (estbl. 1979)

Florida

FLORIDA MUNICIPAL POWER AGENCY, 7201 Lake Ellenor Drive, Suite 100, Orlando, Fla. 32809; 305/859-7310; J. Claude L'Engle, Lake Worth, chmn.; Calvin R. Henze, gen. mgr.; 9 staff; 75-MW share in 802-MW St. Lucie No. 2 nuclear unit, 110.5-MW share in 405-MW Stanton coal unit, $546.5 million loans; 28 members: Alachua, Bartow, Blountstown, Bushnell, Clewiston, Fort Meade, Fort Pierce, Gainesville, Green Cove Springs, Havana, Homestead, Jacksonville Beach, Key West, Kissimmee, Lake Worth, Leesburg, Moore Haven, Mount Dora, Newberry, New Smyrna Beach, Ocala, St. Cloud, Sebring, Starke, Tallahassee, Vero Beach, Wauchula, Williston. (estbl. 1978)*

Georgia

MUNICIPAL ELECTRIC AUTHORITY OF GEORGIA, 1470 Riveredge Pkwy. NW, Atlanta, 30328; 404/952-5445; Gayle Manley, Albany, chmn.; Donald L. Stokley, gen. mgr.; 65 staff; current: 286 MW of 1,614-MW Hatch nuclear plant, 489 MW of 1,620-MW Scherer coal plant, 261 MW of 1,730-MW Wansley coal plant, (all based on nominal plant ratings), purchase approx. 2.2 billion kWh from Georgia Power Co.; approx. 6.0 billion kWh sales; $3.2 billion financing; projected: 522 MW of 2,300-MW Vogtle nuclear plant; 47 members: Adel, Albany, Barnesville, Blakely, Brinson, Buford, Cairo, Calhoun, Camilla, Cartersville, College Park, Commerce, Covington, Crisp County, Doerun, Douglas, East Point, Elbertson, Ellaville, Fairburn, Fitzgerald, Forsyth, Fort Valley, Grantville, Griffin, Hogansville, Jackson, LaFayette, LaGrange, Lawrenceville, Mansfield, Marietta, Monroe, Monticello, Moultrie, Newnan, Norcross, Palmetto, Quitman, Sandersville, Sylvania, Sylvester, Thomaston, Thomasville, Washington, West Point, Whigham. (estbl. 1975)*

Illinois

ILLINOIS MUNICIPAL ELECTRIC AGENCY, 108 Wilmot Road, Suite 208, Deerfield, Ill. 60091; 312/940-7664; Gary Zimmerman, gen. mgr.; Martin Johnson, Breese, pres., bd. of dir.; 28 members: Altamont, Batavia, Bethany, Breese, Bushnell, Cairo, Carlyle, Chatham, Farmer City, Freeburg, Geneseo, Geneva, Highland, Ladd, Mascoutah, Naperville, Oglesby, Peru, Princeton, Rantoul, Riverton, Rochelle, Rock Falls, Springfield, St. Charles, Sullivan, Waterloo, Winnetka. (establ. 1984)*

Indiana

INDIANA MUNICIPAL POWER AGENCY, 5920 Castleway West Dr., Box 50700, Indianapolis, Ind. 46250; 317/849-3242; Frank Rudolph, bd. chmn.; Jesse Tilton, gen. mgr.; 25 percent (156 MW) participation in Gibson No. 5 unit; 27 members: Anderson, Bargersville, Centerville, Columbia City, Covington, Crawfordsville, Darlington, Flora, Frankfort, Frankton, Greendale, Greenfield, Jamestown, Lawrenceburg, Lebanon, Linton, Middletown, Paoli, Pendleton, Peru, Rensselaer, Richmond, Rising Sun, Scottsburg, South Whitley, Tipton, Washington. (estbl. 1980)*

Iowa

NORTH IOWA MUNICIPAL ELECTRIC COOPERATIVE ASSOC., Box 445, Hwy. 169 and 5th Ave. N., Humboldt, Iowa 50548; 515/332-2981; Richard A. Johnson, Humboldt, exec. vice pres.; Ronald L. Deiber, Alta, pres.; coordination of members regarding purchase/sale of power, load forecasting, future supply sources, monthly power billings; 16 members: Algona, Alta, Bancroft, Cedar Falls, Coon Rapids, Forest City, Graettinger, Grundy Center, Laurens, Milford, New Hampton, Spencer,

---

* denotes APPA membership.

† denotes DEED (Demonstration of Energy-Efficient Developments) membership.

Sumner, Waverly, Webster City, West Bend. (estbl. 1965)*

SOUTH IOWA MUNICIPAL ELECTRIC COOPERATIVE, 321 N. First St., Winterset, Iowa 50273; 515/462-2454, -2152, George C. Berry, Winterset, pres.; projected: purchase 50 MW of 650-MW Guthrie County (Iowa) coal unit; 19 members: Brooklyn, Cascade, Corning, Earlville, Fontanelle, Gowrie, Grand Junction, Greenfield, Indianola, Independence, Lamoni, La Porte, Lenox, Ogden, Preston, State Center, Stuart, Villisca, Winterset. (estbl. 1967)

MISSOURI BASIN MUNICIPAL ELECTRIC COOPERATIVE ASSOC., 125 Central Ave., S.E., Orange City, Iowa 51041; 712/737-4885; Allen Roos, Orange City, pres.; Harold Schiebout, Sioux Center, vice pres.; Dean E. Meyer, Harley, sec.-treas.; owns 40 MW transmission capacity through Northwest Iowa Power Cooperative distribution system; 18 members: Alton, Denison, Fontanelle, Hartley, Hawarden, Kimballton, Lake Park, Manilla, Orange City, Paullina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine. (estbl. 1978)

WESTERN IOWA MUNICIPAL ELECTRIC COOPERATIVE ASSOC., 223 Main St., Manning, Iowa 51455; 712/653-3214; Orville Fink, Manning, pres.; Donald Krause, Hinton, vice pres.; 17 MW of Neal 4 coal-fired plant; 6 members: Anthon, Aurelia, Hinton, Manning, Mapleton, Onawa. (estbl. 1973)

Kansas

KANSAS MUNICIPAL ENERGY AGENCY, Box 388, 6950 Squibb Rd., Suite 414, Mission, Kan. 66202; 913/677-2885; John Elder, Winfield, pres.; Gilbert E. Hanson Jr., gen. mgr.; 5 staff; 37.5-MW life-of-unit share of Nearman coal plant, 4 MW of Holcomb coal plant, 10.1 MW Southwestern Power Administration hydro peaking power, interconnection of 6 members into the grid; 32 members: Augusta, Baldwin City, Belleville, Burlington, Chanute, Clay Center, Colby, Ellis, Erie, Fredonia, Garnett, Girard, Greensburg, Herington, Hoisington, Iola, Larned, Meade, Mulvane, Neodesha, Norton, Oberlin, Osawatomie, Ottawa, Pratt, St. Francis, Sharon Springs, Sterling, Stockton, Washington, Wellington, Winfield. (estbl. 1978)*

Louisiana

LOUISIANA ENERGY AND POWER AUTHORITY, 315 Johnson St., Lafayette, La. 70501; 318/269-4046; Mayor Edward (''Bubba'') Lyons, Houma, chmn.; Sylvan Richard, mgr.; 5 staff; 20 percent share in 530-MW coal-fired Rodemacher No. 2 unit, power supplier for members via purchase of members' power and sell-back of lowest-cost power; projected: may add to supply with waste heat and Louisiana lignite; 16 members: Abbeville, Alexandria, Erath, Gueydan, Houma, Jonesville, Kaplan, Lafayette, Minden, Morgan City, Natchitoches, New Roads, Plaquemine, Rayne, St. Martinville, Winnfield. (estbl. 1980)*

Maine

DIRIGO ELECTRIC COOPERATIVE, INC., 2 Central Plaza, Augusta, Maine 04330; 207/622-4406; James L. Dean III, Calais, pres.; George Stoutamyer, Madison, vice pres.; David C. Seuss, Vinalhaven, sec.; Gordon A. Treadwell, treas.; Gordon L. Weil, gen. mgr.; 11 members: Eastern Maine Electric Co-op., Fox Islands Electric Co-op., Houlton, Isle au Haut, Kennebunk, Lubec, Madison, Matinicus, Swans Island Electric Co-op., Union River Electric Co-op., Van Buren. 1 associate member: Stonington & Deer Isle Power. (estbl. 1978)

Massachusetts

MASSACHUSETTS MUNICIPAL WHOLESALE ELECTRIC CO., Stony Brook Energy Center, Box 426, Ludlow, Mass. 01056; 413/589-0141; Horst Huehmer, Hudson, chmn.; Richard K. Byrne, gen. mgr.; 153 employees; 1984 electricity sales for resale—$161,286,000 (2,577,110,000 kWh); revenue bonds outstanding (6/30/84) $1.29 billion; own and operate 311-MW Stony Brook Intermediate Unit and 170-MW Peaking Unit; own 23-MW of 619-MW W.F. Wyman No. 4 (in operation); 55-MW of 1,150-MW Millstone Unit No. 3 (under construction); and 133-MW of 1,150-MW Seabrook Unit 1 (under construction); 34 members: Ashburnham, Belmont, Boylston, Braintree, Chicopee, Concord, Danvers, Georgetown, Groton, Hingham, Holden, Holyoke, Hudson, Hull, Ipswich, Littleton, Mansfield, Marblehead, Merrimac, Middleborough, Middleton, North Attleborough, Paxton, Peabody, Princeton, Reading, Rowley, Shrewsbury, South Hadley, Sterling, Templeton, Wakefield, West Boylston, Westfield. (estbl. 1976)

Michigan

MICHIGAN PUBLIC POWER AGENCY, 2120 44th St. S.E., Kentwood, Mich. 49508; 616/455-1460; Tim Morawski, Holland, chmn.; Richard I. Gorman, gen. mgr.; 5 staff; current: 38-MW share of 770-MW Campbell No. 3 coal unit; and: 242.65-MW share of 652-MW Belle River No. 1 coal unit; gen. 1,284 million kWh; pur. 15 million kWh; rev. $94,000,000; 18 members: Bay City, Charlevoix, Chelsea, Croswell, Grand Haven, Harbor Springs, Hart, Holland, Lansing, Lowell, Niles, Paw Paw, Petoskey, Portland, St. Louis, Sebewaing, Traverse City, Zeeland. (estbl. 1978)*

MICHIGAN SOUTH CENTRAL POWER AGENCY, Box 62, 720 Herring Road, Litchfield, Mich. 49252; 517/542-2346; James R. Endicott, Coldwater, chmn. and commissioner; 49 staff; 55-MW coal plant; 5 members: Clinton, Coldwater, Hillsdale, Marshall, Union City. (estbl. 1979)*

Minnesota

NORTHEASTERN MINNESOTA MUNICIPAL POWER AGENCY, Box 249, 19th St. and 6th Ave., Hibbing, Minn. 55746; 218/263-7515; David C. Strafaccia, Hibbing, pres.; Norman Schroder, Staples, chmn.; 12 members: Aitkin, Biwabik, Buhl, Ely, Gilbert, Grand Rapids, Hibbing, Keewatin, Mountain Iron, Nashwauk, Staples, Virginia.

NORTHERN MUNICIPAL POWER AGENCY, Box 528, Thief River Falls, Minn. 56701; 218/681-5816, -8002; John T. Anderson, Thief River Falls, pres./gen. mgr.; 30 percent share of 414.6 MW Coyote lignite plant, full requirements power supplier for 12 cities; $268 million financing; 12 members: Bagley, Baudette, Fosston, Halstad, Hawley, Roseau, Stephen, Thief River Falls, Warren, Warroad, Minn.; Grafton, Park River, N.D.

SOUTHERN MINNESOTA MUNICIPAL POWER AGENCY, 21 First St. S.W., Suite 400, Rochester, Minn. 55902; 507/285-0478; R. John Miner, Rochester, pres.; Pierre J. Heroux, exec. dir.; $428.5 million in bonds; current: 328-MW share in 800-MW Sherco 3 plant, gen. 416,515,616 kWh; pur. 901,281,344 kWh; rev. $53,830,705. Shared transmission agreements with Northern States Power Co., Dairyland Power Cooperative, Interstate Power Co., United Power Association; staff 30; 21 members: Austin, Blooming Prairie, Fairmont, Grand Marais, Lake City, Litchfield, Mora, New Prague, New Ulm, North Branch, Owatonna, Preston, Princeton, Redwood Falls, Rochester, Spring Valley, St. Peter, Truman, Waseca, Wells, Windom. (estbl. 1977).*

WESTERN MINNESOTA MUNICIPAL POWER AGENCY, 212 Second St. N.W., Ortonville, Minn. 56278; 612/839-2549; Russell F. Berg, Wadena, pres.; Russell Dau, gen. mgr.; staffed by Missouri Basin Municipal Power Agency; 272-MW share of 1,650-MW Missouri Basin Power Project; 21 members: Adrian, Alexandria, Barnesville, Benson, Detroit Lakes, Elbow Lake, Henning, Jackson, Lakefield, Lake Park, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Centre, Staples, Wadena, Westbrook, Windom, Worthington. (estbl. 1976)

Mississippi

MUNICIPAL ENERGY AGENCY OF MISSISSIPPI, Box 1408, Greenwood, Miss. 38930; 601/453-2622; Richard M. Webster Jr., Clarksdale, chmn.; 8 members: Canton, Clarksdale, Durant, Greenwood, Itta Bena, Kosciusko, Leland, Yazoo. (estbl. 1978)*

Missouri

MISSOURI JOINT MUNICIPAL ELECTRIC UTILITY COMMISSION, 310 Tiger Lane, Columbia, Mo. 65203; 314/445-3279; Gary Whorton, Trenton, chmn.; Bob Barnett, mgr.; 42 members: Albany, Bethany, Cameron, Campbell, Carthage, Centralia, Chillicothe, Columbia, Farmington, Fayette, Fredericktown, Fulton, Gallatin, Hannibal, Hermann, Higginsville, Independence, Jackson, Kirkwood, Lamar, La Plata, Macon, Malden, Marshall, Memphis, Monroe City, New Madrid, Nixa, Odessa, Poplar Bluff, Richland, Rolla, Salisbury, Sikeston, Slater, Springfield, Stanberry, Trenton, Unionville, Vandalia, Waynesville, West Plains. (estbl. 1980)*

Nebraska

NEBRASKA MUNICIPAL POWER POOL, Box 95124, 1335 L St., Lincoln, Neb. 68509; 402/474-4759; Robert E. Arraj, Kimball, pres.; H. Steve Wacker, gen. mgr.; 23 staff; 77 members: Alliance, Ansley, Arnold, Auburn, Bayard, Beatrice, Beaver City, Benkelman, Blue Hill, Bridgeport, Broken Bow, Burwell, Callaway, Cambridge, Central City, Chappell, Crete, Curtis, David City, Fairbury, Falls City, Franklin, Fremont, Gering, Grand Island, Grant, Hastings, Holdrege, Imperial Public Power District, Kimball, Lexington, Lincoln, Lodgepole, Lyman, Lyons, Mitchell, Morrill, Mullen, Nebraska City, Neligh, North Platte, Oxford, Pender, Pierce, Plainview, Randolph, Red Cloud, Sargent, Seward, Shickley, Sidney, South Sioux City, Stromsburg, Stuart, Superior, Sutton, Syracuse, Tecumseh, Valentine, Wahoo, West Point, Wilber, Wilcox, Wisner, Wood River, Neb.; Aspen, Burlington, Fleming, Ft. Morgan, Haxtun, Holyoke, Julesburg, Lyons, Wray, Yuma, Colo.; Goodland, Kan.; and Torrington, Wyo. (estbl 1975)*†

MUNICIPAL ENERGY AGENCY OF NEBRASKA (MEAN), (Nebraska Municipal Power Pool is operating agent), Box 95124, 1335 L St., Lincoln, Neb. 68509; 402/474-4759; Robert Stull, Gering, chmn.; H. Steve Wacker, exec. dir. and sec.-treas.; 23 staff; current: 40-MW share of Nebraska City No. 1 coal unit, 10-MW share of Laramie River Coal Station, 5-MW share of Hastings Energy Center Unit 1; gen. 117,000 kW includes 57,000 kW (members' capacity used by MEAN); sales 470 million kWh;$15 million financing issued March 1983; 23 members: Alliance, Bayard, Beaver City, Blue Hill, Broken Bow, Burwell, Chapell, Curtis, Fairbury, Falls City, Gering, Kimball, Lyman, Mitchell, Morrill, Mullen, Oxford, Pender, Red Cloud, Sidney, Stuart, Wahoo, West Point, Neb.(estbl. 1981)

North Carolina

NORTH CAROLINA MUNICIPAL POWER AGENCY NUMBER 1, Box 29513, 3100 Smoketree Court, Raleigh, N.C. 27626-0513; 919/876-9170; Mayor George Clay Jr., Shelby, chmn.; James T. Bobo, gen. mgr.; $1.375 billion financing; 75 percent (859-MW) share of Catawba Nuclear Station Unit 2, 37.5 percent of its support facilities; 19 participants: Albemarle, Bostic, Cherryville, Cornelius, Drexel, Gastonia, Granite Falls, High Point, Huntersville, Landis, Lexington, Lincolnton, Maiden, Monroe, Morgantown, Newton, Pineville, Shelby, Statesville and one member: Concord. (estbl. 1976)*

NORTH CAROLINA EASTERN MUNICIPAL POWER AGENCY, Box 29513, 3100 Smoketree Court, Raleigh, N.C. 27626-0513; 919/876-9170; Mayor Frederick F. Turnage, Rocky Mount, chmn.; James T. Bobo, gen. mgr.; $1.3 billion financing; projected: undivided ownership interests, from 13 to 18 percent, in Brunswick Nuclear Station, Roxboro Plant, Mayo Plant, Shearon Harris Nuclear Plant; 32 participants: Apex, Ayden, Belhaven, Benson, Clayton, Edenton, Elizabeth City, Farmville, Fremont, Greenville, Hamilton, Hertford, Hobgood, Hookerton, Kinston, La Grange, Laurinburg, Louisburg, Lumberton, New Bern, Pikeville, Red Springs, Robersonville, Rocky Mount, Selma, Scotland Neck, Smithfield, Southport, Tarboro, Wake Forest, Washington, Wilson.*

North Dakota

NORTH DAKOTA MUNICIPAL POWER AGENCY, Northwood, N.D. 58267; 701/587-5581; Truman Wold, Northwood, pres.; Robert H. Griffin, sec.-treas.; vice pres.; 6 members: Cavalier, Hillsboro, Hope, Lakota, Northwood, Valley City. (estbl. 1977)

Ohio

AMERICAN MUNICIPAL POWER-OHIO (AMP-OH) (merged with Ohio Municipal Electric Association in 1983), Box 549, 1001 Eastwind Dr., Suite 109, Westerville, Ohio 43081; 614/890-2805; Richard H. Gorsuch, pres.; Henry A. Bell, Columbus, chmn.; bulk power supplier for 65 members; 70 members: Amherst, Arcanum, Beach City, Blanchester, Bloomdale, Bowling Green, Bradner, Brewster, Bryan, Celina, Cleveland, Columbiana, Columbus, Custar, Cuyahoga Falls, Cygnet, Deshler, Dover, Edgerton, Elmore, Galion, Genoa, Glouster, Grafton, Hamilton, Haskins, Hubbard, Hudson, Jackson, Jackson Center, Lakeview, Lebanon, Lodi, Lucas, Mendon, Milan, Minster, Monroeville, Montpelier, Napoleon, New Bremen, New Knoxville, Newton Falls, Niles, Oak Harbor, Oberlin, Ohio City, Orrville, Painesville, Pemberville, Pioneer, Piqua, Prospect, Republic, Seville, Shelby, South Vienna, St. Clairsville, St. Marys, Sycamore, Tipp City, Versailles, Wadsworth, Wapakoneta, Waynesfield, Wellington, Westerville, Woodsfield, Woouville, Yellow Springs. (estbl. 1972)

Oklahoma

OKLAHOMA MUNICIPAL POWER AUTHORITY, 2300 E. 2nd St., Box 1960, Edmond, 73083-1960, 405/340-5047; Michael D. Brown, chmn.; Harry Dawson, gen. mgr.; 42 members: Altus, Anadarko, Blackwell, Claremore, Comanche, Cushing, Duncan, Edmond, Eldorado, Fairview, Frederick, Goltry, Granite, Hominy, Kingfisher, LaVerne, Lexington, Lindsay, Mangum, Marlow, New Cordell, Newkirk, Okeene, Olustee, Pawhuska, Pawnee, Perry, Ponca City, Pond Creek, Prague, Pryor, Purcell, Ryan, Spiro, Stillwater, Stroud, Tecumseh, Walters, Watonga, Waynoka, Wynnewood, Yale. (estbl. 1981)*

South Carolina

PIEDMONT MUNICIPAL POWER AGENCY, 100 Memorial Drive, Greer, S.C., 29651; 803/877-9632; Joe B. Lanford, Rock Hill, chmn.; James A. Bauer, gen. mgr.; $730 million in bonds issued December 1984; $340 million in May 1985; $250 million refunding November 1985; $445 million refunding December 1985; 10 members: Abbeville, Clinton, Easley, Gaffney, Greer, Laurens, Newberry, Rock Hill, Union, Westminster. (estbl. 1979)*

South Dakota

HEARTLAND CONSUMER POWER DISTRICT, Box 248, Madison, S.D. 57052; 605/256-6536; Ellwood Paulsen, Centerville, pres.; Wendell J. Garwood, gen. mgr.; 7 staff; 50-MW share of 1,650-MW Laramie River Coal Station; 21 members: Arlington, Aurora, Colman, Estelline, Groton, Hecla, Howard, McLaughlin, Madison, Parker, Plankinton, South Dakota State University-Brookings, University of South Dakota-Vermillion, State Training School-Plankinton, Tyndall, Volga, Wessington Springs, White, S.D.; Akron, Iowa; Marshall, Tyler, Minn. (estbl. 1969)*

MISSOURI BASIN MUNICIPAL POWER AGENCY, Box 84610, Sioux Falls, S.D. 57118-4610; 605/338-4042; Earl La Maack, Alexandria, Minn., pres.; Russell Dau, gen. mgr.; 25 staff; gen. 332,000 kW (272,000 kW coal, 60,000 kW oil-fired); 1,300 million kWh; rev. $56.4 million; 56 members: Alton, Denison, Fontanelle, Granite Falls, Hartley, Hawarden, Kimballton, Lake Park, Manilla, Orange City, Paullina, Primghar, Remsen, Rock Rapids, Sanborn, Shelby, Sioux Center, Wall Lake, Woodbine, Iowa; Adrian, Alexandria, Barnesville, Benson, Blue Earth, Detroit Lakes, Elbow Lake, Granite Falls, Henning, Jackson, Lake Park, Lakefield, Luverne, Madison, Moorhead, Ortonville, St. James, Sauk Centre, Staples, Wadena, Westbrook, Worthington, Minn.; Beresford, Big Stone City, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pierre, Vermillion, Winner, Watertown, S.D.; Cavalier, Hillsboro, Lakota, Northwood, Valley City, N.D. (estbl. 1965)*†

SOUTH DAKOTA MUNICIPAL POWER AGENCY, Box 84610, Sioux Falls, S.D. 57118; 605/338-4042; Dave Padgett, Pierre, pres.; issued bonds for Missouri Basin Municipal Power Agency office building; substation for Fort Pierre; 11 members: Beresford, Big Stone City, Brookings, Burke, Faith, Flandreau, Fort Pierre, Pierre, Vermillion, Watertown, Winner. (estbl. 1979)

Texas

LONE STAR MUNICIPAL POWER AGENCY, Drawer 9960, College Station, Texas 77840-2499; 409/764-3510, C.B. "Buck" Herndon, Kirbyville, bd. pres.; O.F. Woods, Newton, vice pres.; 4 members: College Station, Caldwell, Newton, Kirbyville.

SAM RAYBURN MUNICIPAL POWER AGENCY, 303 North Jackson, Livingston, Texas 77351; 409/327-5303; Wayne DuBose, Jasper, pres.; Robert D. Willis, exec. dir.; $157.25 million financing; $179,695,764 refunding bonds 1982, 108-MW share in 540-MW Nelson No. 6 coal unit (May 1982), 57-MW hydro project, option to participate in future Gulf States Co. projects; gen. 17,000 kW hydro; gen. 619.6 million kWh; pur. 319,709,111 kWh; rev. $33,784,000; 4 members: Jasper, Liberty, Livingston, Texas, and Vinton, La. (estbl. 1979)*

TEXAS MUNICIPAL POWER AGENCY, Box 7000, Bryan, Texas 77805; 409/873-2013; Richard Stewart, Denton, pres.; Ed Wagoner, gen. mgr.; 330 staff; 400-MW lignite-fired Gibbons Creek Steam Electric Station; projected: 6.2 percent share of 2,300-MW Comanche Peak nuclear units, transmission facilities; 4 members: Bryan, Denton, Garland, Greenville.*

Utah

INTERMOUNTAIN POWER AGENCY, 5250 S. 300 West, Suite 101, Murray, Utah 84107; 801/262-8807; Reece D. Nielsen, chmn.; Ronald Rencher, gen. mgr.; current; transmission lines: one 500-kV direct current line, two 345-kV and one 230-kV ac lines, 1,522-MW coal-fired Intermountain Power Project under construction (two units to be completed in 1986 and 1987); 23 Utah municipal members and six California municipal participants: Anaheim, Burbank, Glendale, Los Angeles, Pasadena, Riverside, Cal.; Beaver City, Bountiful, Enterprise, Ephraim, Fairview, Fillmore City, Heber, Holden, Hurricane, Hyrum, Kanosh, Kaysville, Lehi, Logan, Meadow, Monroe, Morgan, Mount Pleasant, Murray, Oak City, Parowan, Price, Spring City, Utah. (Six cooperatives and one private utility are also participants in the project) (1974)*

UTAH ASSOCIATED MUNICIPAL POWER SYSTEMS, 8722 South 300 West, Sandy, Utah 84070; 801/566-3933; Carolyn S. McNeil, gen. mgr.; Dwight Day, Fillmore, chmn.; gen. 655 million Wh; Wh; current: owns 14.6 percent of Hunter 2 coal-fired, steam generating plant; projected; 22 members: Beaver City, Enterprise, Ephraim, Fairview, Fillmore City, Heber Light & Power Co., Holden, Hurricane, Hyrum, Kanosh, Kaysville, Lehi City, Logan, Meadow, Monroe, Morgan, Mount Pleasant, Murray, Oak City, Parowan, St. George City, Spring City. (estbl. 1980)*

UTAH MUNICIPAL POWER AGENCY, 40 S. Main, Spanish Fork, 84660, 801/465-2100, Rex Woodhouse, Clark Bigler, exec. sec.; 6 members: Levan, Manti, Nephi, Provo, Salem, Spanish Fork. (estbl. 1981)

Vermont

VERMONT PUBLIC POWER SUPPLY AUTHORITY, 512 St. George Rd., Box 425, Williston, Vt. 05495; 802/878-5274; Kenneth C, Mason, Lyndonville, chmn.; Paul H. Bradtmiller, gen. mgr.; 14 staff; 12 members: Burlington, Enosburg Falls, Hardwick, Jacksonville, Ludlow, Lyndonville, Morrisville, Northfield, Readsboro, Stowe, Swanton, Washington Electric Cooperative. (estbl. 1979)*

Washington

CENTRAL WASHINGTON POWER AGENCY, 1400 E. Vantage Hwy., Ellensburg, Wash. 98926; 509/925-3164; Harold W. Jenkins, Ellensburg, and E. Roy Mundy, Ephrata, dirs.; 2 members: Grant County and Kittitas County public utility districts. (estbl. 1962)

CLARK-COWLITZ JOINT-OPERATING AGENCY, Box 3007, Longview, Wash. 98632; 206/423-2210; Paul Runyan, Clark County PUD, dir.; Steven L. Ferrell, Cowlitz County PUD, dir.; projected: attempting to acquire 134-MW Merwin Dam hydro plant; 2 members: Clark County PUD, Cowlitz County PUD.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM, Box 968, Richland, Wash. 99352-0968; 509/372-5000; Carl Halvorson, Portland, Ore., chmn.; Kenneth Cochrane, Kahlotus, pres.; Donald W. Mazur, managing dir.; gen. 1,966 MW nuclear, 27.5 MW hydro; operating rev. $44,810,000; 17 members: cities of Ellenburg, Richland, Seattle, Tacoma, and public utility districts of following counties—Benton, Chelan, Clark, Ferry, Franklin, Grant, Grays Harbor, Kittitas, Klickitat, Okanogan, Pacific, Skamania, Wahkiakim. (Participants in the WPPSS nuclear plants include 32 municipalities, 26 PUDS, 52 cooperatives and 4 investor-owned utilities.) (estbl. 1957)*

Wisconsin

BADGER POWER MARKETING AUTHORITY OF WISCONSIN INC., 122 N. Sawyer St., Shawano, Wis., 54166, 715/526-2920, M.E. Zeuske, Shawano, pres.; Al Mahnke, Clintonville, vice pres.; Lee Ebert, Shawano, gen. mgr. Consisting of two member cities, Clintonville and Shawano, Badger expects to add municipal and cooperative associate members. Badger has begun the permit process to construct a 30-mile, 138-kV transmission line to two investor-owned utilities. (estbl. 1984)

WESTERN WISCONSIN MUNICIPAL POWER GROUP, 860 Lincoln Ave., Fennimore, Wis. 53809; 608/822-6501; Charles J. Leuck, Fennimore, pres.; 12 members: Arcadia, Argyle, Cashton, Cumberland, Elroy, Fennimore, Merrillan, New Lisbon, Viola, Wis.; Forest City, Lake Mills and Osage, Iowa.. (estbl. 1976)

WISCONSIN PUBLIC POWER INC. SYSTEM, Box 44, Sun Prairie, Wis. 53590; 608/837-2653; Ernest J. Mullen, pres.; David W. Penn, gen. mgr.; 5 staff; pur. 1.7 billion kWh; 26 members: Algoma, Black River Falls, Boscobel, Cedarburg, Cuba City, Eagle River, Florence, Hartford, Jefferson, Kaukauna, Lake Mills, Menasha, Muscoda, New Holstein, New London, New Richmond, Oconomowoc, River Falls, Slinger, Sturgeon Bay, Two Rivers, Waterloo, Waunakee, Waupun, Westby, Whitehall.*†

Wyoming

WYOMING MUNICIPAL POWER AGENCY, Box 900, Lusk, Wyo. 82225; 307/334-2170; John Harrison, Pine Bluffs, chmn.; Larry LaMaack, exec. dir.; 6 staff; 16.5-MW share of 1,650-MW coal-fired Missouri Basin Power Project, purchases power from Western Area Power Administration, transmission services from WAPA; gen. 41.6 million kWh; pur. 75.9 million kWh; rev. $3,370,417; 8 members: Cody, Fort Laramie, Guernsey, Lingle, Lusk, Pine Bluffs, Powell, Wheatland.*

NATIONAL ASSOCIATION

AMERICAN PUBLIC POWER ASSOCIATION, 2301 M St. N.W., Washington, D.C. 20037, 202/775-8300, Alex Radin, exec. dir.; Gordon W. Hoyt, Anaheim, Cal., pres; Bill D. Carnahan, Fort Collins, Colo., pres.-elect; Joe H. Exum, Jackson, Tenn., vice pres.; C.M. Perkins, Salt River Project, Phoenix, Ariz., treas.

REGIONAL ASSOCIATIONS

COLORADO RIVER ENERGY DISTRIBUTORS ASSOCIATION, Salt River Project, Box 1980, Phoenix, Ariz. 85001; 602/236-5812; S.K. Bazant, Plains Electric G&T Co-op, Albuquerque, N.M., pres.; Larry Michael, Salt River Project, vice pres.; Ted Rampton, Intermountain Consumer Power Association, sec.-treas.*

GREAT LAKES ELECTRIC CONSUMERS ASSOCIATION, Suite 732, 2100 Pennsylvania Ave., N.W., Washington, D.C. 20037, 202/296-3788, Frank Frisk, exec. dir.; William Matson, Harrisburg, Pa., pres.; Steven Smith, Bloomington, Ind., first vice pres.; Lee Ebert, Shawano, Wis., second vice pres.; Glenn Loving, Urbandale, Iowa, sec.-treas.*

INTERMOUNTAIN CONSUMER POWER ASSOCIATION, 8722 S. 300 West, Sandy, Utah 84070, 801/566-3933, Carolyn McNeil, gen. mgr.; R. Leon Bowler, Beryl, Utah, pres.; Ted L. Olson, Ephraim, Utah, vice pres.; Ray Farrell, Heber, Utah, sec.; Vaun Bethers, Logan, Utah, treas.*

MID-WEST ELECTRIC CONSUMERS ASSOCIATION, Suite 300, Evergreen Executive Bldg., 27972 Meadow Drive, Box 910, Evergreen, Colo. 80439, 303/674-6675, Fred G. Simonton, exec. dir.; Ray R. Jilek, West Plains Electric Co-op, Dickinson, N.D., pres.; Phil Hauan, Northwest Iowa Power Cooperative, vice pres.; Louis Stroup Jr., McPherson, Kan., sec.-treas.*

MISSOURI BASIN SYSTEMS GROUP, Box 2327, Estes Park, Colo. 80517, 303/586-2393; Robert F. Risch, exec. dir.; Dennis Lindberg, Odebolt, Iowa, pres.; Harvey K. Malon, Rapid City, S.D., vice pres.; James D. Davies, Billings, Mont., sec.-treas.; Russell Dau, Sioux Falls, S.D., asst. sec.-treas.*

NORTHEAST PUBLIC POWER ASSOCIATION, Suite 104, 148 Linden St., Wellesley, Mass. 02181, 617/237-9126, Chapman Stockford, exec. dir.; Robert O. Toombs, East Montpelier, Vt., pres.; Bruce P. Patten, Peabody, Mass., vice pres.; Edgar Gadbois, Northfield, Vt., second vice pres.; William F. O'Connor, Taunton, Mass., sec.; James L. Dean, Calais, Maine, treas.*

NORTHWEST PUBLIC POWER ASSOCIATION, 9817 N.E. 54th St., Box 4576 (after Feb. 28), Vancouver, Wash. 98662, 206/694-6553, Norman C. Jacox, gen. mgr.; Jim Thompson, Tacoma, Wash. pres.; Bill McCrorie, Clallam County PUD, Wash., first vice pres.; Wayne Yenni, Clearwater Power Co., Kendrick, Idaho, second vice-pres.; Brian Almquist, city of Ashland, treas.*

PUBLIC POWER COUNCIL **(NORTHWEST)**, 500 W. 8th St., Suite 110, Vancouver, Wash. 98660, 206/694-8593; Daniel M. Ogden Jr., mgr.; Steve Loveland, Springfield, Ore., chmn.*

SEMO-NEARK MUNICIPAL UTILITIES ASSOCIATION, Paragould, Ark. 72450, 501/598-3243, Ted Bellars, Piggott, Ark., pres.; Denver Turner, Piggot, Ark., sec.-treas.*

SOUTHWESTERN POWER RESOURCES ASSOCIATION, (formerly Committee on Power for the Southwest), 1800 Canyon Park Circle, Suite 403, Edmond, Okla. 73083, 405/340-1900, Michael McDowell, exec. dir.; Wayne DuBose, Jasper, Texas, chmn.; Walter Oestreich, Callaway Electric Co-op, Fulton, Mo., vice pres.; Buddy Veltema, Walter, Okla., sec.-treas.

CENTRAL SERVICE ASSOCIATION **(TENNESSEE VALLEY)**, Box 348, Tupelo, Miss. 38802-0348, 601/842-5962; Ronnie H. Hickman, gen. mgr.; M.E. Beavers, Cleveland (Tenn.) Utilities, pres.; J.M. Allen, Tombigee Electric Power Association, Tupelo, Miss., vice pres.; T.M. Barnett, Central Service Association, Tupelo, Miss., sec.-treas.*

TENNESSEE VALLEY PUBLIC POWER ASSOCIATION, 1201 Chestnut St., Chattanooga, Tenn. 37402, 615/756-6511, Jerry L. Campbell, exec. dir.; R.A. Azbell, Sheffield, Ala., pres.; Roy M. Palk, Carthage, Tenn., vice-pres.; Tommy L. Kirkpatrick, Louisville, Miss., sec.-treas.*

STATE ASSOCIATIONS

ELECTRIC CITIES OF **ALABAMA**, Drawer 1748, 504 S. Perry St., Montgomery, Ala. 36103, 205/834-6222, Howard McClanahan, Florence, chmn.; Jimmy Garrett, Cullman, sec.-treas.; Bob Thorington, Montgomery, counsel.

MUNICIPAL ELECTRIC UTILITY ASSOCIATION OF **ALABAMA**, Box 87, Lafayette, Ala. 36862, 205/864-9812, Ed Allen, mayor; Dale Baker, Sylacauga, vice chmn.; S.A. Cherry, Dothan, sec.-treas.

ARIZONA MUNICIPAL POWER USERS' ASSOCIATION, 2712 N. Seventh St., Phoenix, Ariz. 85006-1003, 602/248-0372, Michael A. Curtis, exec. sec.; John Sullivan, Salt River Project, pres.; Wm. J. Metheny, Electrical District No. 2, vice pres.; Jerry Flanders, Arizona Elec. Power Coop., sec.; James Guinane, Arizona Electric Power Cooperative, treas.*

ARKANSAS MUNICIPAL POWER ASSOCIATION, 1319 Prairie St., Conway 72032, 501/329-5641, James H. Brewer, chmn.; Gene Sweat, Newport, vice-chmn.; Jack Wilson, Oceola, sec.-treas.

CALIFORNIA MUNICIPAL UTILITIES ASSOCIATION, Suite 103, 1213 K St., Sacramento, Cal. 95814, 916/441-1733, Gerald L. Jordan, exec. dir.; Ernest Geddes, Turlock Irrigation Dist., pres.; Herbert B. Wessel, San Bernardino, vice pres.; Harold Guetersloh Jr., San Francisco, treas.; Lewis R. Adams, sec.*

NORTHERN **CALIFORNIA** MUNICIPAL ELECTRIC ASSOCIATION, 760 Parkview Ave., Redding, Cal., 96001;Sam Lindley, Redding, pres.; Jim Beck, Santa Clara, treas.

COLORADO ASSOCIATION OF MUNICIPAL UTILITIES, Box 440, Center, Colo., 81125, 303/754-3497, Darrell Davis, Center, pres.; David Plumb, Longmont, first vice pres.; Mike Hall, Fountain, second vice pres.; Bruce Swain, Colorado Springs, sec.-treas.*

CONNECTICUT MUNICIPAL ELECTRIC & GAS ASSOCIATION, Box 190, 100 John St., Wallingford, Conn. 06492, 203/265-1593, Ray Smith, Wallingford, pres.; Larry Rossi, South Norwalk, sec.*

---

* denotes APPA membership.

† denotes DEED (Demonstration of Energy-Efficient Developments) membership.

FLORIDA MUNICIPAL UTILITIES ASSOCIATION, Box 10114, Suite 842, Barnett Bank Bldg., 315 S. Calhoun, Tallahassee, Fla. 32302, 904/224-3314, E.C. Shreve Jr., exec. vice pres.; Richard L. Hester, Gainesville, pres.; William Joe Loadholtes, Fort Meade, pres-elec.; James O'Connor, Bartow, vice-pres.; B.W. Wait III, Tallahassee, sec.-treas.*

ELECTRIC CITIES OF **GEORGIA**, 34 Peachtree St., Suite 2300, Atlanta, Ga. 30303, 404/688-0472, Marshall Collins, East Point, chmn.; Arthur Chapman, Blakely, vice-chmn.; Bill Thornton, Atlanta, research and information dir.*

ILLINOIS MUNICIPAL UTILITIES ASSOCIATION, Box 38, 431 Miller St., Bushnell, 61422, 309/772-2020; Burt Sammons, actng. exec. dir.; Arthur O. Fischer, Waterloo, pres.; Bob O'Donnell, Rock Falls, vice pres.; George Frazier, Sullivan, second vice pres.; M. Stephen Finn, Princeton, sec.-treas.*

INDIANA MUNICIPAL ELECTRIC ASSOCIATION Box 283, Tipton, Ind. 46072, 317/675-2334; Paul W. Osler, exec. dir.; Wayne Henry, Jamestown, pres.; Thomas E. Donoho, Frankfort, vice-pres.; James B. Nelson, Lebanon, sec.-treas.*

IOWA ASSOCIATION OF MUNICIPAL UTILITIES, Room 520, Insurance Exchange Bldg., Des Moines, Iowa, 50309, 515/282-0904, Bart Rule, exec. dir.; George Williams, Cedar Falls, pres.; Don Fahlenkamp, Montezuma, vice pres.; Curt Punt, Alton, vice pres.; Russ Harris, Hawarden, sec.-treas.*

KANSAS MUNICIPAL UTILITIES, INC., Box 1225, McPherson, Kan. 67460, 316/241-1423, Louis Stroup Jr., exec. dir.; Jack Davis, Ottawa, pres.; John Walker, Washington, pres.-elect.; Rick Doran, Garnett, first vice pres.; Les Olm, Iola, second vice pres.; Henry Crosby, McPherson, sec.-treas.*

KENTUCKY MUNICIPAL ELECTRIC POWER ASSOCIATION, 400 Kings Daughters Dr., Frankfort, Ky. 40601, 502/223-2063, Lyle D. Cobb, exec. dir.; Bill Austin, Franklin, pres.; Jim McCune, Monticello, vice-pres; Bob Carper, Owensboro, sec.-treas.*

MUNICIPAL ELECTRIC ASSOCIATION OF **MASSACHUSETTS**, 80 Commercial St., Marblehead, Mass. 01945, 617/631-0240, Mark T. Kelly, Middleton, pres.; Joseph M. Blain, Taunton, first vice pres.; Gerald Skelton, Templeton, second vice pres.; Richard L. Bailey, Marblehead, sec.-treas.*

MICHIGAN MUNICIPAL ELECTRIC ASSOCIATION, 818 Cowley Ave., East Lansing, Mich. 48823, 517/351-6469 or 906/387-2226, S. Don Potter, exec. vice pres.; Arthur G. Reinhold, Sebewaing, pres.; Ronald Neer, Hillsdale, vice pres.; Clarence G. Pincumbe, Lansing, treas.*

MINNESOTA MUNICIPAL UTILITIES ASSOCIATION, Box 459, 401 E. Highway 55, Buffalo, Minn., 55313, 612/682-4104, Dick Kirkham, exec. dir.; Robert Filson, Mora, pres.; Dennis Mathiason, Moorhead, first vice pres.; Joseph Adrian, Glencoe, second vice pres.; David Frantsen, Rochester, sec.-treas.*

MISSOURI ASSOCIATION OF MUNICIPAL UTILITIES, 310 Tiger Lane, Columbia, Mo. 65203, 314/445-9177, Gerald Feller, exec. dir.; Robert Roundtree, Springfield, pres.; Gary Whorton, Trenton, first vice pres.; Richard Veatch, Independence, second vice pres.; John Twitty, Rolla, treas.*

NEBRASKA POWER ASSOCIATION, Box 80869, Lincoln, 68501, 402/473-3204, Debbra Hoy, admn. coord.; Glen Schmieding, Beatrice, pres.; Jon K. McCafferty, Fremont, first vice pres.; Don E. Schaufelberger, Columbus, second vice pres.; Eldon C. Pape, Omaha, sec.; Russ Bovaird, Denver, Colo. treas.

UTILITIES SECTION OF THE **NEBRASKA** LEAGUE OF MUNICIPALITIES, 1335 L St., Lincoln, Neb. 68508, 402/476-2829, David L. Chambers, director; George Wolverton, asst. in charge of utilities; Lance Hedquist, South Sioux City, pres.*

PUBLIC POWER ASSOCIATION OF **NEW JERSEY**, Box 346, Sussex, 07461, 201/875-5101; James Jablonski, pres.; Ray Lawson, Vineland, vice pres.; Abe Antun, Madison, treas.

MUNICIPAL ELECTRIC GENERATION ASSOCIATION (MEGA), Box 900, Farmington, **N.M.** 87499, 505/327-7701, Dwight D. Arthur, Farmington, sec.

MUNICIPAL ELECTRIC UTILITIES ASSOCIATION OF **NEW YORK** STATE, 19 Aviation Rd., Albany, N.Y. 12205, 518/459-6937, Betty Aiken, exec. sec.; James A. Buff, Skaneateles, pres.; Patrick J. Hester, Rockville Centre, pres.-elect.; John McPeak, Solvay, vice pres.; Neal Wrinkle, Bath, vice pres.; George D. Reich, Plattsburgh, trustee; Wesley G. Ryder, Penn Yan, trustee; Robert N. Vaisey, Fairport, trustee; James Pullan, Jamestown, treas.*

ELECTRICITIES OF **NORTH CAROLINA** INC., Box 29513, 3100 Smoketree Court, Raleigh, N.C. 27626-0513, 919/876-9170, James T. Bobo, gen. mgr.; Boyd C. Myers, New Bern, pres.; Judith P. Mendenhall, High Point, first vice pres.; Rodney V. Byard, Wake Forest, second vice pres.; Douglas O. Bean, Morganton, sec.; William H. Batchelor, Rocky Mount, treas. *

NORTH CAROLINA ASSOCIATION OF MUNICIPAL ELECTRIC SYSTEMS, Box 3069, Raleigh, N.C. 27602, 919/834-1311, Steve Slough, Concord, pres.; Ronald Wicker, Apex, vice pres.; Linda K. Story, Granite Falls, sec.-treas.

NORTH DAKOTA ASSOCIATION OF MUNICIPAL POWER SYSTEMS, Box 240, Valley City, N.D. 58072, 701/845-2210, Truman Wold, Northwood, pres.; Roger Bischoff, Valley City, vice pres.; Robert Griffin, Valley City, sec.-treas.

AMERICAN MUNICIPAL POWER-**OHIO** INC. (See listing in joint-action agency section. Ohio Municipal Electric Association merged into American Municipal Power-Ohio in 1983.)*

MUNICIPAL ELECTRIC SYSTEMS OF **OKLAHOMA**, c/o Oklahoma Municipal League, 201 N.E. 23rd St., Oklahoma City, Okla. 73105, 405/528-7564, Shane Woolbright, exec. dir.; Harvey Massey, Pawhuska, pres.; Corky Silvy, Ponca City, pres.-elect.; Joe Jackson, Stillwater, vice pres.; Delford Rutledge, Anadarko, sec.-treas.*

LEAGUE OF PUBLICLY OWNED ELECTRIC UTILITIES OF **OREGON**, 1201 Court St. NE, Box 928, Salem, Ore. 97308, 503/588-6466, Tom O'Connor, exec. dir.; Doug Sleeth, Forest Grove, pres.; Ken Hobson, Cascade Locks, vice pres.; Gale Banry, Springfield, sec.-treas.

OREGON PUD ASSOCIATION, 1176 Chemeketa N.E., #101, Salem 97301, 503/370-4413, Marion Hemphill, exec. dir.; Timothy Josi, Bay City, pres.; Milt Skov, The Dalles, pres.-elect.; Roland Nuetzman, Newport, sec.-treas.*

PENNSYLVANIA MUNICIPAL ELECTRIC ASSOCIATION, 212 Locust St., Box 1266, Harrisburg 17108-1266, 717/233-5704, William F. Matson, exec. sec.; Lee Mangan, Lansdale, pres.; Mort Smedley, Lehighton, vice pres.; Robert Eckman, Chambersburg, sec.; Leonard Perrone, treas.*

SOUTH CAROLINA ASSOCIATION OF MUNICIPAL POWER SYSTEMS, c/o Combined Utility System, Box 605, Easley, S.C. 29640, Steve Hale, Easley, pres.; Charles Litchfield, vice pres.; Ken Barnett, sec.; Terry Hill, treas.*

SOUTH DAKOTA MUNICIPAL ELECTRIC ASSOCIATION, 214 E. Capitol, Pierre, S.D. 57501, 605/224-8654, Robert H. Miller, exec. dir.; Craig Osvog, pres.; Richard Bailey, vice pres.

TENNESSEE MUNICIPAL ELECTRIC POWER ASSOCIATION, Box 1311, The Paddock I, C-13, 229 Ward Circle, Brentwood, Tenn. 37027, 615/373-5738, T.O. Walker, exec. dir.; Richard Turner, Lewisburg, pres.; Lindsay Boyd, Newport, pres.-elect.; John F. Sharpe, Brownsville, sec.-treas.*

TEXAS PUBLIC POWER ASSOCIATION, 8240 Mo Pac Expressway, Suite 298, Austin, 78759, 512/346-3780, R. Michael Simmons, exec. dir.*

MUNICIPAL ELECTRIC ASSOCIATION OF **VERMONT**, Box 516, Hardwick, Vt. 05843, 802/472-3388, William D. Fee, pres.; Orman E. Croft, sec.-treas.

MUNICIPAL ELECTRIC POWER ASSOCIATION OF **VIRGINIA**, 13 E. Franklin St., Richmond, Va. 23219 (Box 12203, Richmond 23241), 804/649-8471, Christy A. Everson, exec. sec.; Clyde D. Wimmer, Manassas, pres.; John R. Sweeney, Danville, vice pres.*

WASHINGTON PUBLIC UTILITY DISTRICTS' ASSOCIATION, 19518 Pacific Hgwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980, James Boldt, exec. dir.; Parker L. Knight, Skamania County PUD, pres.; Harold Beckemeier, Grant County PUD, vice pres.; Ken McMillen, Jefferson County PUD, sec.-treas.*

EASTERN **WASHINGTON** PUD COMMISSIONERS' ASSOCIATION, 19518 Pacific Hgwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980, Jim Martin, Okanogan County PUD pres.; Jim Sisk, Franklin County PUD, vice pres.; Robert Johnson, Pend Oreille County PUD, sec.-treas.

WESTERN **WASHINGTON** PUD COMMISSIONERS' ASSOCIATION, 19518 Pacific Hgwy., South, Suite 102, Seattle, Wash. 98188, 206/824-6980, Jones Atterberry, Skagit County PUD, pres.; John Kostick, Klickitat County PUD, vice pres.; Ken McMillen, Jefferson County PUD, sec.-treas.

MUNICIPAL ELECTRIC UTILITIES OF **WISCONSIN**, 1940 1st St. North, Wisconsin Rapids, 54494; Russell H. Kurtz, Lake Mills, exec. dir., 414/648-2258; Larry H. Bocock, Sun Prairie, pres.; Robert A. Selchert, Sheboygan Falls, first vice pres.; Donald G. Moen, Sauk City, second vice pres.; Robert O. Stuhlmacher, Wisconsin Rapids, sec.-treas.* ✷

FEDERAL POWER AGENCIES

DEPARTMENT OF ENERGY, Washington, D.C. 20585, 202/252-5000
Secretary—John S. Herrington, 252-6210
Deputy secretary—Danny Boggs, 252-5500
Under secretary—Joseph Salgado, 252/6476
General counsel—J. Michael Farrell, 252-5281
Inspector general—James R. Richards, 252-4393.
Assistant secretary, management and administration—Martha Hesse, 252-8010
Assistant secretary, congressional, intergovernmental and public affairs—Theodore Garrish, 252-5450
Assistant secretary, international affairs and energy emergencies—George Bradley Jr., 252-5800
Assistant secretary, nuclear energy (acting)—James W. Vaughan Jr., 252-6450
Assistant secretary, environment, safety and health—William A. Vaughan, 252-5325
Assistant secretary, conservation and renewable energy (acting)—Donna R. Fitzpatrick, 252-9222
Assistant secretary, fossil energy (acting)—Donald Bauer, 252-6660
Assistant secretary, defense programs (acting)—Don Ofte, 252-2177
Director, office of energy research, Alvin Trivelpiece, 252-5430
Director, office of civilian radioactive waste management, Ben C. Rusche, 252-6850

Created under Public Law 95-91, signed by President Carter on Aug. 4, 1977, the Department of Energy (DOE) was activated on Oct. 1, 1977. The department includes federal power marketing agencies formerly in the Department of the Interior (see listings below); the former Federal Power Commission, renamed the Federal Energy Regulatory Commission (see listing below); all functions of the former Federal Energy Administration and Energy Research and Development Administration; and a variety of other functions transferred from several other federal departments and agencies.

ECONOMIC REGULATORY ADMINISTRATION, DOE, Washington, D.C. 20585, 202/252-2929. Administrator, Marshall Staunton (acting); special counsel, Milton Lorenz; chief counsel, admin. litigation, Carl Corrallo; chief counsel, judicial litigation, Tom Newkirk; director, enforcement programs, Avrom Landesman; director, office of admin. and financial management, Jerry F. Thompson; director, office of coal and electricity, Bob Davies.

The Economic Regulatory Administration (ERA) is the entity within the Department of Energy responsible for administering and enforcing most of the department's regulatory programs.

ENERGY INFORMATION ADMINISTRATION, DOE, Washington, D.C., Forrestal Building 20585, 202/252-6351. Administrator Helmuth A. Merklein; executive assistant, Lawrence Klur, 202/252-6358; director, National Energy Information Center, John E. Daniels, 252-8800 or 252-2363.

In establishing the Energy Information Administration (EIA) in 1977, Congress gave the agency the responsibility for "... carrying out a central, comprehensive and unified energy data and information program which will collect, evaluate, assemble, analyze and disseminate data and information which is relevant to energy resource reserves, energy production, demand and technology, and related economic and statistical information; or which is relevant to the adequacy of energy resources to meet demand in the near and long-term future for the nation's economic and social needs."

FEDERAL ENERGY REGULATORY COMMISSION, 825 N. Capitol Street, N.E., Washington, D.C. 20426, 202/357-8200. Commissioners (all terms expire Oct. 20 of year listed): Raymond J. O'Connor–chairman (1987); Charles G. Stalon (1987); Anthony Sousa (1988); Charles Trabandt (1988); C.M. Naeve (1989); secretary, Kenneth F. Plumb; executive director, William G. McDonald; director, office of electric power regulation, Larry Anderson; director, office of hydropower licensing, Ken Pusateri (acting); director, office of pipeline and producer regulation, Kenneth Williams; director, division of public information, Rachelle Patterson; director, division of intergovernmental affairs, Joan Simmons; chief, public reference branch, William McDermott.

ALASKA POWER ADMINISTRATION, Box 50, Juneau, Alaska 99802, 907/586-7405. Administrator, Robert J. Cross.*

Alaska Power Administration (APA) was established in 1967 to operate and market power from federal hydroelectric projects in Alaska including the 30,000-kW Eklutna Project constructed by the Bureau of Reclamation and the 47,160-kW Snettisham Project constructed by the Army Corps of Engineers. A 34,500-kW expansion of the Snettisham Project is under construction with an estimated 1988 completion date. In fiscal 1985, APA sold 307 million kWh and had power revenues of $6.8 million.

BONNEVILLE POWER ADMINISTRATION, Box 3621, 1002 N.E. Holladay St., Portland, Ore. 97208, 503/230-3000. Administrator, Peter T. Johnson; deputy administrator, Robert E. Ratcliffe; executive assistant administrator, James J. Jura; assistant administrator, power management, Edward W. Sienkiewicz; media relations manager, Edward Mosey, 503/230-5359; assistant administrator, Washington, D.C., office, Larry C. Larson, Forrestal Bldg., Room 8G033, Washington, D.C. 20585, 202/252-5640.*

Bonneville Power Administration (BPA), established under the Bonneville Project Act of 1937, markets power from projects constructed by the Army Corps of Engineers and the Bureau of Reclamation in the Columbia River Basin. As of Dec. 31, 1984, the Federal Columbia River Power System included 30 hydroelectric projects with 19,397,980 kW of installed capacity. During the calendar year, BPA sold 87.9 billion kWh of electricity for $1.9 billion to 164 customers including 37 municipalities, 27 public utility districts, 54 rural electric cooperatives, 14 private power companies, 6 federal and state agencies, 6 aluminum and 11 other industries in the Pacific Northwest, and 14 agencies and companies outside the Northwest.

SOUTHEASTERN POWER ADMINISTRATION, Samuel Elbert Bldg., Elberton, Ga. 30635, 404/283-3261. Administrator, Harry C. Geisinger; director, division of power sales, Kenelm E. Rucker; director, division of fiscal operations, Leon Jourolmon Jr.; director, division of power operations, Jim B. Lloyd; director, division of administrative management, Karl Tucker; executive assistant to the administrator, Mary George Bond; acting general counsel, Denver L. Rampey Jr.*

Southeastern Power Administration (SEPA) was established in 1950 to market power from the Army Corps of Engineers projects in 10 Southeastern states. In fiscal year 1985 SEPA sold 6.0 billion kWh from 22 projects with a total installed capacity of 2,942,375 kW and had revenues of $90.8 million.

SOUTHWESTERN POWER ADMINISTRATION, Box 1619, Page Belcher Federal Bldg., 333 W. Fourth, Tulsa, Okla. 74101, 918/581-7474. Administrator, Ronald H. Wilkerson; assistant administrator, Walter M. Bowers; director, power marketing division, Francis R. Gajan; director, power facilities division, James N. McClanahan; director, administrative management division, George C. Grisaffe; chief counsel, Charles A. Borchardt; public affairs officer, Bradley C. Byers; human resources officer, Maretta W. White.*

Southwestern Power Administration (SWPA) was established in 1943 to market power in Kansas, Missouri, Oklahoma, Arkansas, Texas and Louisiana. In fiscal year 1985 SWPA sold approximately 7.6 billion kWh of electricity from projects with a total installed capacity of 2,043,684 kW and had gross revenues of approximately $117 million.

WESTERN AREA POWER ADMINISTRATION Box 3402, Golden, Colo. 80401, 303/231 + ext. Administrator, William H. Clagett (1511); assistant administrator for management services; Paul G. Brumby (1517); assistant administrator for engineering, Thomas L. Weaver (1516); assistant administrator for power management, operations and maintenance, Joe D. Hall (1518); general counsel, Michael S. Hacskaylo (1534); assistant to the administrator for conservation and environment, Warren Jamison (7945); public affairs officer, Robert M. Zeeck (1554); Washington liaison, Ronald Greenhalgh (202/252-5581).*

The service area of the Western Area Power Administration (Western or WAPA), a federal power marketing agency within the Department of Energy, extends into 15 western states and includes about 16,120 miles of transmission lines and approximately 8,150 MW of capacity at 49 hydro projects constructed by the Corps of Engineers, the Bureau of Reclamation and the

---

* denotes APPA membership.

International Boundary and Water Commission (U.S. Section). Additionally, Western markets the U.S. entitlement from the Navajo coal-fired plant near Page, Ariz., and power generated at a wind farm in Wyoming. This brings the total installed generating capacity to 8,703 MW. During fiscal year 1984 power sales were about 46.3 billion kWh and power revenues were $525.3 million.

TENNESSEE VALLEY AUTHORITY, Knoxville, Tenn. 37902, 615/632-2101. Directors (9-year terms expire May 18): Charles H. Dean Jr., chairman (1990); Richard M. Freeman (1987); John B. Waters Jr. (1993); general manager, William F. Willis; general counsel, Herbert S. Sanger Jr.; director of information, Craven Crowell; manager of power and engineering (supply and use), Robert C. Steffy Jr.; manager of power and engineering (nuclear), Hugh G. Parris, Chattanooga, Tenn. 37401.*

The Tennessee Valley Authority (TVA) is a corporate agency of the federal government created by Congress in 1933 as a regional resource development agency. As of Sept. 30, 1985, the authority had a total installed capacity of 30,909,370 kW (coal-fired, 17,647,360 kW; nuclear 5,897,160 kW; hydro, 4,845,950 kW, combustion turbine, 2,510,000 kW) and also marketed the output of eight federal dams constructed by the Corps of Engineers on the Cumberland River (853,000 kW) and 4 dams of the Tapoco Co. (326,500 kW) for a total system capacity of 32,088,870 kW.

About 80 percent of TVA power sales of 104 billion kWh in fiscal 1985 were made at wholesale to 110 municipal utilities and 50 rural electric cooperatives serving 2.9 million consumers in Tennessee, northern Alabama, northern and eastern Mississippi, southern Kentucky, and smaller areas in northern Georgia, western North Carolina, and southwestern Virginia. TVA also sold 15.4 billion kWh to large, directly-served industries, 5.2 billion kWh to other federal agencies, and 391 million kWh to private power companies.

U.S. ARMY CORPS OF ENGINEERS, 20 Massachusetts Ave. N.W., Washington, D.C. 20314-1000, 202/272-0001. Chief of Engineers, Lt. Gen. E.R. Heiberg III; deputy chief of engineers, Maj. Gen. N.G. Delbridge Jr.; director of civil works, Maj. Gen. Henry J. Hatch; exec. dir., civil works, Col. Dennis York.

RURAL ELECTRIFICATION ADMINISTRATION, South Bldg., U.S. Dept. of Agriculture, Washington, D.C. 20250, 202/382-9540. Administrator, Harold V. Hunter; deputy administrator, Jack Van Mark; acting assistant administrator-electric, Donald L. Olsen.

The Rural Electrification Administration (REA), established under executive order by President Franklin D. Roosevelt in 1935 and subsequently authorized by the Rural Electrification Act of 1936, makes loans and loan guarantees to provide electric and telephone service to rural areas.

		Fiscal Year 1985	*Cumulative*
Insured Loans:	*2 percent*	*$ 1,981,000*	*$9,883,175,919*
	5 percent	*560,048,000*	*8,723,891,912*
Total Insured		*562,029,000*	*18,607,067,831*
Electric loans guaranteed by REA:		*74,636,000*	*32,372,593,434*
Total:		*636,636,000*	*50,979,661,265*

NUCLEAR REGULATORY COMMISSION, 1717 H St. N.W., Washington, D.C. 20555, 202/634-1481. Commissioners (five-year terms expire June 30); Nunzio Palladino, chairman (1986); James K. Asselstine (1987); Frederick M. Bernthal (1988); Lando W. Zech Jr. (1989); Thomas M. Roberts (1990).

The Nuclear Regulatory Commission (NRC) licenses and regulates the use of nuclear energy by licensing persons and companies to build and operate nuclear reactors and to own and use nuclear materials. (The NRC makes rules and sets forth standards for licenses and inspects activities of licensees.

MAJOR CANADIAN ELECTRIC UTILITIES

by HANS R. KONOW

director, public affairs, Canadian Electrical Association

THIRTY ELECTRIC UTILITIES in Canada, represented by the Canadian Electrical Association (CEA), are directly responsible for generating more than 90 percent of the nation's electric energy. Most of the remaining power is generated by large industrial users with their own facilities.

Most electric utilities are responsible for generation, transmission and distribution to the ultimate customer. In several cases, major generating utilities sell in bulk to municipally owned utilities. With the exception of Ontario, where 324 municipally owned utilities buy power directly from the generating and transmitting authority (Ontario Hydro), most of the major municipal utilities elsewhere in Canada are members of CEA.

Unlike in the United States, privately owned power companies in Canada are in the distinct minority. Most utilities are owned directly and completely by their provincial governments.

In 1984, power generation by utilities in Canada was 91 percent of the total electricity generation. This was made up of 22 percent thermal, 12 percent CANDU (Canadian Deuterium Uranium) nuclear and 66 percent hydroelectric. Net exports to the United States amounted to 39,042 GWh (8 percent higher than in 1983.) This represented 9 percent of the total generation in Canada. The following is a brief outline of the major electric utilities in Canada, by province:

British Columbia

British Columbia Hydro & Power Authority is the largest electric utility in British Columbia. It is owned entirely by the provincial government and supplies the entire province. Total generating capacity is 12,246 of which 10,337 MW are hydro.

West Kootenay Power is a small private utility dedicated principally to supplying power to a large private smelter operation in the interior of British Columbia. It also supplies power to the city of Trail. Generating capacity is 42 MW, all hydro.

Alberta

Alberta, the only province in Canada that has not nationalized the power companies, is the home of Canada's two largest private power companies.

TransAlta Utilities Corp., formerly Calgary Power Ltd., is the largest private or investor-owned electric utility in Canada, with an installed generating capacity of 4,110 MW, 3,310 of which are coal-fired. Most of the balance, 800 MW, is hydro. Some 571,488 customers are served directly or indirectly by TransAlta. That figure includes the customers served by the City of Calgary municipal utility which buys all of its power requirements in bulk from TransAlta.

Alberta Power, the second largest privately owned electric utility in Canada, is located in Edmonton, Alberta, and serves 139,890 customers directly, aside from some bulk power sales to Edmonton Power, the city-owned electric utility. Installed capacity is 1,056 MW, most of which is coal-fired thermal. Municipally owned Edmonton Power has installed generating capacity of 1,333 MW, most of which is natural gas-fired.

Alberta Power is owned by Canadian Utilities, which also owns and operates Yukon Electric in the Northwest Territories, and several gas utilities.

Saskatchewan

Saskatchewan Power Corp. serves all of the province's 385,867 electricity customers, and also services the province's natural gas needs. It is owned by the provincial government. Of 2,650 MW of installed generating capacity, 1,912 MW derive from steam, 154 MW from internal combustion and the balance, 576 MW, from hydro.

Manitoba

Manitoba Hydro, owned by the provincial government, is the largest of two electric utilities in the province. Of a total installed capacity of 3,924 MW, 3,504 MW are produced from hydro. Manitoba Hydro serves the entire province directly with the exception of its largest city, Winnipeg, which is served by the municipal utility.

Winnipeg Hydro is a municipally owned utility serving 116,160 customers within the city. Installed generating capacity consists of 142 MW of hydro and 50 MW of coal-fired thermal power.

Ontario

Ontario Hydro is the largest electric utility in Canada. Owned by the provincial government, its mandate is to meet generation and transmission requirements within the province. Distribution to ultimate customers is handled by 324 municipal utilities which buy bulk power from Ontario Hydro. Rural retail customers served directly total 768,500. Dependable peak capacity is 27,333 MW. Total deliveries in 1984 were 123 TWh (terawatt hours). CANDU nuclear produced 32 percent, 30 percent came from hydro and 31 percent from coal-fired thermal generation. Also included was 7 percent purchased energy.

Québec

Hydro-Québec is the second largest utility in Canada. It is owned by the provincial government and 21,711 MW of its total generating capacity of 23,460 MW are hydro. Total sales in 1984 amounted to 104 TWh. In addition to its own installed capacity, Hydro-Québec has access to most of the output of the Churchill Falls power plant.

The 685-MW CANDU nuclear unit, Gentilly II, has been introduced into the mix. The balance of Hydro-Québec's rated capacity, 1,058 MW, used for peaking, includes 600 MW oil-fired thermal, 363 MW gas turbine and 101 MW diesel.

New Brunswick

New Brunswick Electric Power Commission is wholly owned by the provincial government of New Brunswick. It is responsible for all generation, transmission, and distribution of electrical energy within the province. As of March 31, 1984, N.B. Power had 235,877 direct customers and was serving 37,617 customers through wholesale sales to the City of Saint John. Provincial capacity included the following: 20 percent CANDU nuclear, 26 percent hydro, 8 percent coal and 4.5 percent oil. Total generation and purchases amounted to 17 billion kWh.

Nova Scotia

The Nova Scotia Power Corp. is also provincially owned. Its total generation capacity of 2,048 MW includes 1,518 MW of steam, 169 MW of gas turbine and 361 MW of hydro, as well as 0.3 MW of wind generation. In addition, a small tidal generation plant at Annapolis, N.S., was recently brought into service, the first of its kind in the Western Hemisphere.

Prince Edward Island

Maritime Electric Co. Ltd. is a small, privately owned utility serving Canada's smallest province. Maritime Electric's generating capacity includes 71 MW of oil-fired generation and 39 MW of gas turbine generation, interconnected to New Brunswick through a submarine cable.

Newfoundland

The province of Newfoundland is served by a combination of public and private utilities. The largest utility in the province, responsible for generation primarily and some distribution in remote areas, is Newfoundland and Labrador Hydro. It is owned by the government of the province of Newfoundland. Newfoundland and Labrador Hydro also owns Churchill Falls Labrador Corp., Twin Falls Power Corp., Gull Island Power Corp. and the Lower Churchill Development Corp. Including all its subsidiaries, Newfoundland and Labrador Hydro has a total of 6,839 MW of installed capacity, of which 6,130 MW are hydro. The Churchill Falls Labrador Corp. plant represents 5,225 MW of this. There is a 450-MW oil-fired thermal plant; three gas turbine installations produce 110 MW. The other generation is diesel, serving remote areas of this sparsely populated province. Another hydro site is under construction at Cat Arm (127 MW).

Aside from serving large industrial customers in some areas, and individual customers in remote areas, the bulk of Newfoundland and Labrador Hydro's generation is sold to Newfoundland Light & Power Corp., a private utility responsible for distribution to most of the island's individual customers. Newfoundland Light & Power Corp. also has some of its own generation, including 30 MW of oil-fired generation, 45 MW gas turbine generation, 14 MW of internal combustion generation and 84 MW of hydro generation.

Those are the principal utilities within Canada. Following are their addresses, phone numbers and chief operating or executive officers:

British Columbia Hydro and Power Authority, 970 Burrard St., Vancouver, British Columbia V6Z 1Y3, 604/663-2212, C.A. Johnson, chairman.

Alberta Power Ltd., Box 2426, 10035 105th St., Edmonton, Alberta T5J 2V6, 403/420-7310, W.R. Horton, president, chief executive officer.

TransAlta Utilities Corp., Box 1900, 110 - 12th St. S.W., Calgary, Alberta T2P 2M1, 403/267-7110, M. M. Williams, president, chief executive officer.

Saskatchewan Power Corp., 2025 Victoria Ave., Regina, Saskatchewan S4P 0S1, 306/527-7611, E. B. Campbell, president.

Manitoba Hydro, Box 815, 820 Taylor Ave., Winnipeg, Manitoba R3C 2P4, 204/474-3311, J. J. Arnason, president, chief executive officer.

Ontario Hydro, 700 University Ave., Toronto, Ontario M5G 1X6, 416/592-5111, T. Campbell, chairman.*

Hydro-Québec, 75 ouest, boul. Dorchester, Montréal, Québec H2Z1A4, 514/289-2211; Guy Coulombe, président et directeur général.*

New Brunswick Electric Power Commission, 527 King St., Fredericton, New Brunswick E3B 4X1, 506/453-4444, A. J. O'Connor, gen. mgr.*

Nova Scotia Power Corp., Box 910, Barrington Tower, Scotia Square, Halifax, Nova Scotia B3J 2W5, 902/424-6230, L. R. Comeau, president.

Maritime Electric Co. Ltd., Box 1328, Charlottetown, Prince Edward Island C1A 7N2, 902/892-6531, J. H. Reynolds, president.

Newfoundland Light & Power Co. Ltd., Box 8910, Kenmount Road, St. John's, Newfoundland A1B 3P6, 709/737-5600, D. S. Templeton, president and general manager.

Newfoundland and Labrador Hydro, Box 9100, Philip Place, Elizabeth Square, St. John's, Newfoundland A1A 2X8, 709/737-1400, C.J. Abery, vice-chairman and chief executive officer.

Canadian Electrical Association, Suite 500, 1 Westmount Square, Montréal, Québec H3Z 2P9, 514/937-6181, W.S. Read, president. ✹

---

* denotes APPA membership.

ALASKA
FRANKLIN
NORTHWEST TERRITORIES
YUKON
MACKENZIE
KEEWATIN
CANADA
BRITISH COLUMBIA
ALBERTA
SASKATCHEWAN
MANITOBA
ONTARIO
QUEBEC
LABRADOR
NEWFOUNDLAND
PRINCE EDWARD
NEW BRUNSWICK
NOVA SCOTIA
WASHINGTON
N. DAKOTA

CABLE COMMUNICATION SYSTEMS

Cable System by State	*Person in charge Phone*	*Year Started*	*Subscribers*	*Channels*	*Basic Monthly Rate*	*Utility Use*	*Structure*	*Financing*
ALABAMA								
Riviera Utilities 413 East Laurel Ave. Box 550 Foley 36536	H. Sewell St. John Jr. 205/943-5001	1982	1,542	24	$10.50	No	Separate function of utilities board	Retained earnings of utilities board
Lincoln Cable TV Box 172 Lincoln 35096	C.L. Watson 205/763-7777	1983	620	21	10.00	No	Separate department	City loan
Opp Cablevision Box 311 Opp 36467	Charles McGowan 205/493-4571	1967	2,800	23	9.00	No	Under utility department	City operating revenues
ARKANSAS								
Conway Corporation Box 99 Conway 72032	James H. Brewer 501/329-5641	1980	5,706	22	8.95	Load control, metering	Owned by city and leased to municipal Conway Corp.	Loan from utility department
CALIFORNIA*								
San Bruno Municipal Cable TV 567 El Camino Real San Bruno 94066	David A. Thomas 415/877-8889	1971	8,000	58	9.00	No	Separate department	Rebuilt with departmental revenues
COLORADO*								
Center Municipal Cable System Box 400 Center 81125	Darrell T. Davis 303/754-3497	1984	393	19-54	6.00	Load control	Separate entity controlled by utility board	Loan from utility surplus to be paid back by cable department with interest.
Copper Mountain Metropolitan District Cable TV Box 3001 Copper Mountain 80443	Ray Bishop 303/968-2882 ext. 6440	1976	730	10	15.00	No (investigating)	Metropolitan District (similar to city government)	General obligation bonds
FLORIDA*								
City of Newberry City Hall Newberry 32669	LaRoy Paulson 904/472-2161	1974	562	12	6.00	No	Part of utility department	Cable fund
City of Valparaiso Communications System Box 296 44 Southview Ave. Valparaiso 32580	Thomas Miller 904/678-2922	1976	1,284	31	7.50	Yes	City agency providing: burglar, fire, assault alarm; well-monitoring; phase reversal, sewer lift station & well monitoring.	
GEORGIA								
City of Covington CATV Box 1527 Covington 30209	Frank Turner 404/786-5324	1980	3,400	29	9.95	Air-conditioning load management planned	Separate cable department	City's general fund
City of Monroe Box 725 Monroe 30655	John T. Briscoe Jr. 404/267-5756	1972	3,257	36	5.00	Air-conditioning load management	Under utility department	Cable fund
ILLINOIS								
City of Madison Box 87 Madison 62060	D. Sipes 618/877-4654	1984	125	No TV		Burglary, fire and emergency services	Separate alarm and cable department	City's general fund
IOWA								
Coon Rapids Cable System 123 Third Avenue Box 207 Coon Rapids 50058	Eugene P. Smith 712/684-2225	1982	340	16	9.50	Utility alarm, investigating for load mgmt., & communications	Operated by utility; separate board for policy	Utility reserve funds

---

Publicly owned cable communication systems in cities or towns served by local publicly owned electric utilities are underlined.
When two numbers are listed under "Channels" the first is the number in use and the second is the number available.

Cable System by State	Person in charge Phone	Year Started	Subscribers	Channels	Basic Monthly Rate	Utility Use	Structure	Financing
Hartley Municipal Cable System 169 South Central Ave. Hartley 51346	Dean Meyer 712/728-2240	1983	498	20	9.00	Maybe load management	Separate department	Loan from surplus electric funds
Manilla Municipal Cable 166 Sixty Ave. Manilla 51454	James H. Macumber 712/654-3952	1983	288	12	9.95	No	Within utility department	Loan from electric fund
Manning Municipal Cable Board 719 Third St. Manning 51455	Gerald Beck 712/653-3214	1982	467	20-30	10.50	Load management in 1984.	Operated by separate board	Electric revenue bonds for load management; gas department surplus for the rest
Primghar Municipal Cable TV 741 16th St. Primghar 51245	Robert Mulder 712/757-2435	1981	314	21-36	8.50	Load management	Part of utility department	General obligation bonds
Community Cable Television City of Sanborn Sanborn 51248	Allen Bonderman 712/729-3974	1981	375	23-36	8.50	Load management/air conditioners and water heaters	Operated by utility; separate programming band	Utility funds and corporation revenue bonds
KANSAS								
Americus City CATV Americus 66835	Clifford Bausman 316/443-5655	1976	275	9	12.00	No	Separate cable department	Revenue bonds
Arma Cablevision City of Arma Box 829 Arma 66712	Mavis Masterson 316/347-4125	1981	313	13-14	9.00	No	Separate cable department	Cable revenue bonds
Baxter Cable Vision City of Baxter Springs Box 577 Baxter Springs 66713	C. Michael Hall 316/856-2727	1980	1,125	12	8.50	No (weather alert)	City-owned, separate city dept.	Industrial revenue bonds
City of Cawker City Box 2 Cawker City 67430	Delbert Wallace 913/781-4713	1977	240	16	10.00	No	Separate department	Revenue bonds
Columbus Cablevision 300 East Maple Columbus 66725	Gail Houser 316/429-2159	1980	825	9	8.36	Emergency disaster warning	Separate city department	Revenue bonds
Marion Municipal Cable Vision City of Marion 203 N. 3rd Marion 66861	Joan Bowers 316/382-3703	1978	424	13	12.50	No	Separate department	Revenue bonds
City of Pawnee Rock Cable Television Utility Box 218 Pawnee Rock 67567	Doris Bryan 316/982-4386	1983	87	8	20.00	No	Separate city utility department	Cable revenue bonds
City of Waverly CATV 524 Market Osage City 66523	Susan Gutsch 913/733-2461	1977	183	11	12.50	No	Separate city department	General obligation bonds
KENTUCKY								
Community Service, Incorporated 325 Ann St. Frankfort 40601	Ben Fowler 502/227-7513	1952	9,443	19	3.50	No	Nonprofit corporation	City loan
MARYLAND								
The Easton Utilities Commission 11 South Harrison St. Box 1189 Easton 21601	Roger Judd 301/822-6110	1984	1,500	37-64	8.00	Meter reading and load control planned	Owned by town, operated by separate dept. of utils. comm.	General obligation bonds
MASSACHUSETTS*								
Shrewsbury's Electric Light Plant 100 Maple Ave. Shrewsbury 01545	James E. Baker 617/845-4881	1983	5,850	80	9.95	Energy management planned	Division of utility	General obligation bonds

Cable System by State	*Person in charge* *Phone*	*Year Started*	*Subscribers*	*Channels*	*Basic Monthly Rate*	*Utility Use*	*Structure*	*Financing*
MICHIGAN								
City of Crystal Falls 401 Superior Ave. Crystal Falls 49920	Walter E. Hagglund 906/875-6650	1959	825	10-21	4.50	No	Part of utility	Loan from city's general fund
City of Negaunee Cable Television System Box 70 Negaunee, Mich. 49866	Thomas R. McNabb 906/475-7700	1984	1,050	19	6.00	Not yet	Division of electric utility	Utility reserve funds
City of Norway CATV Box 194 Norway 49870	Junior Stanchina 906/563-9641	1954	1,458	17	4.00	No	Part of utility	Utility general fund
Wyandotte Municipal Service 3005 Biddle Ave. Wyandotte 48192	Dale Simmons 313/282-7100 ext. 364	1982	6,900	52	8.00	Future use planned	Separate department within utility	Lease system from private investors with purchase agreement at a fixed date
MINNESOTA*								
Bagley City Cable TV Box M Bagley 56621	Bernie Stavig 218/694-2300	1976	534	12	7.65	No	Within utility department	Cable revenue bonds
City of Fosston Cable TV 220 First St., N.E. Fosston 56542	Russell Earls 218/435-1737	1976	570	12	6.75	Load management	Under utility	Cable revenue bonds
Jackson Municipal TV System 504 Second St. Jackson 56143	Curt Egeland 507/847-3225	1957	1,551	16	6.00	No	Separate dept.	Installation fees of original subscribers
City of Marble Box 38 Marble 55764	Alice Abrahamson 218/247-7147	1983	210	12	7.00		Part of city government	General fund
Windom Cable Communications System 444-9th St. Windom 56101	D.W. Nelson 507/831-2363	1985	1,000	23	9.95	No	Separate entity owned by city	Loan from utility commission
MISSOURI								
Newburg Cable TV System Drawer K Newburg 65550	Barbara Macormic 314/762-2315	1975	250	9	5.00	No	Operated through city hall	Borrowed from private development corporation
Unionville Cable Authority 1621 Grant St. Box 206 Unionville 63565	Larry C. Weston 816/947-3316	1980	780	11	9.50	No	Separate nonprofit board	Cable revenue bonds
OREGON*								
Cascade Locks CATV Box 308 Cascade Locks 97014	Ken Hobson 503/374-8484	1972	366	12	9.00	No	Separate department administered by council	Cable revenue bonds
Town of Lexington Lexington 97839	Mayor John Ripple 503/989-8125	1959	100	8	5.00			
PENNSYLVANIA								
New Wilmington Borough Cable TV 140 West Neshannock Ave. New Wilmington 16142	Ed Garrett 412/946-8167	1979	382	20	6.00	No	Separate department	General fund
Pitcairn Community Antenna System 582 Sixth St. Pitcairn 15140	George Myers 412/372-6500	1953	1,000	17	5.00	No	Under light department	Installation fees of original subscribers, ($75.00)
SOUTH DAKOTA								
City of Beresford 101 North Third St. Beresford 57004	Wayne Akland 605/763-2500	1983	508	12-20	7.95		Maintained by telephone department	General city fund
WASHINGTON*								
City of Sumas TV Cable System Box 5, Cherry St. Sumas 98295	Lawrence Silvis 206/988-5711	1953	360	7	5.75	No	Municipal department	City light fund

Cable System by State	Person in charge Phone	Year Started	Subscribers	Channels	Basic Monthly Rate	Utility Use	Structure	Financing
North Bonneville Box 7 North Bonneville 98639	Doug McKenzie 509/427-8182	1982	135	9-11	8.00		Part of utility department	Municipal reserves
WISCONSIN								
City of Oconto Falls 104 South Franklin St. Box 70 Oconto Falls 54154	George Barber 414/846-2911	1981	Now 500; plan 600	20-52	8.95	Maybe meter reading	Under utility commission	Bank loan backed by city
Town of Two Creeks Town Hall 54241	Gordon Blaha 414/755-2221	1986	160	30-52	Free	Nuclear emergency warning	Part of city government	Nuclear plant taxes

The following publicly owned utilities use privately owned cable systems for utility functions:

Palo Alto *(Cal.) Elec. Util. uses cable for computerized traffic control, utility information programs and voice, and will use it for SCADA. Bill Kubicki, principal elec. engr.; 415/329-2631.*

Longmont *(Colo.) Elec. Util. uses cable for a SCADA system which monitors and controls the power network within the utility and schedules power generation. Jeff Gould, chief elec. engr.; 303/776-6050.*

Leesburg *(Fla.) uses fiber optic cable for telephone, computer, and SCADA systems. J.M. Tardugno, util. supt.; 904/787-4252.*

Richmond *(Ind.) Power and Light has placed its weather radar video signal on the CATV system. Irving Huffman, gen. mgr.; 317/935-3131.*

Rowley *(Mass.) Mun. Lighting Plant is testing the economic, technical and operational feasibility of remote meter reading and billing of 100 meters. G. Robert Merry, mgr.; 617/948-3992.*

Benson *(Minn.) uses cable for load management to control air conditioners, space heaters and water heaters. Edward J. Shukle Jr., city mgr.; 612/843-4775.*

Willmar, *(Minn.) Mun. Utils. Comm. uses cable to control air conditioners, water heaters and downtown streetlighting. C. Ted Nelson, gen. mgr.; 612/235-4422.*

Lincoln *(Neb.) Elec. System will test cable for load control, remote meter reading and SCADA. James L. Miller, mgr. of engr. ser.; 402/475-4211.*

Bath *(N.Y.) Elec., Gas, & Water Systems uses cable for load shedding. W.N. Wrinkle; 607/776-3072.*

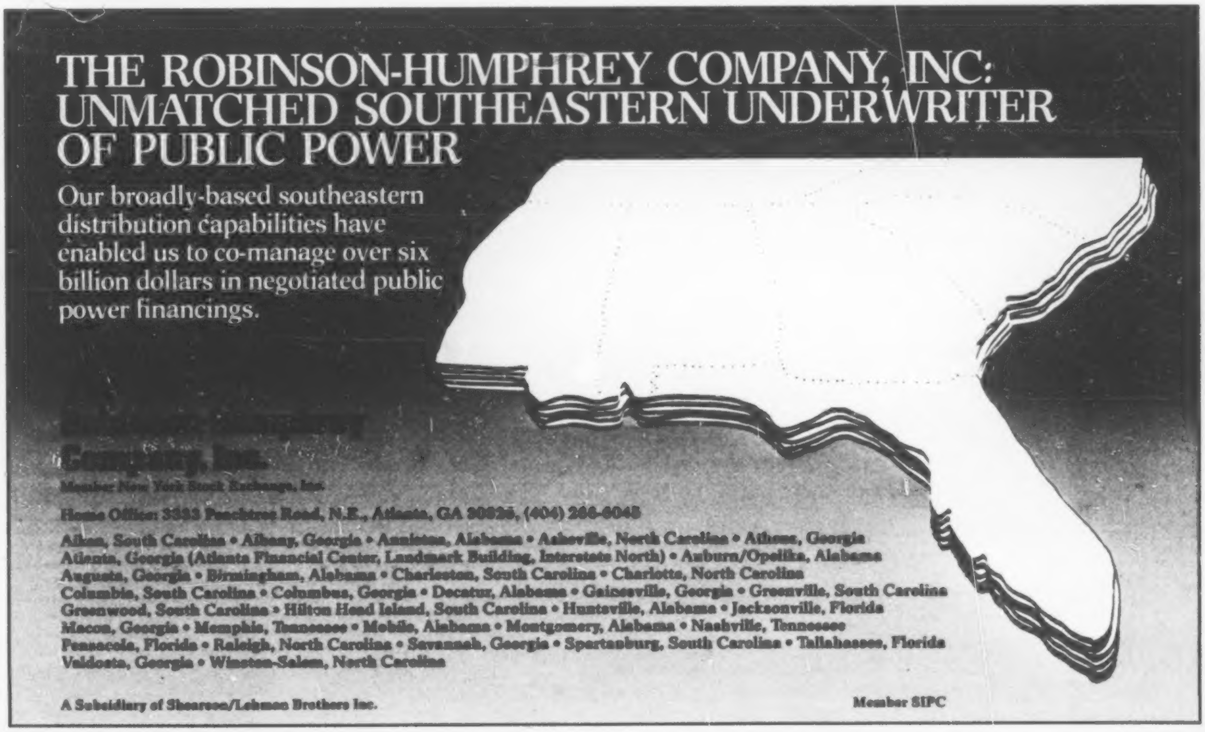
Wake Forest *(N.C.) uses cable for informational purposes. Jerry Walters, town adm.; 919/556-2024.*

Forest Grove *(Ore.) Light & Power Dept. uses cable for public information and education. Doug Sleeth, dir.; 503/357-7151.*

Cleveland *(Tenn.) Utils. uses cable for weather information. Tom Wheeler; 615/472-4521.*

Seattle *(Wash.) City Light uses a cable system (municipally, rather than privately, owned) for communications and relay. Paul Croom; 206/625-3200.*

Tacoma *(Wash.) Dept. of Pub. Utils. is investigating use of the local private cable system for high-speed data communications among the Tacoma utility's facilities. James E. Thompson, supt.; 206/383-2471.* ✸



THE ROBINSON-HUMPHREY COMPANY, INC.:
UNMATCHED SOUTHEASTERN UNDERWRITER
OF PUBLIC POWER

Our broadly-based southeastern distribution capabilities have enabled us to co-manage over six billion dollars in negotiated public power financings.

[illegible]
Company, Inc.

Member New York Stock Exchange, Inc.

Home Office: 3333 Peachtree Road, N.E., Atlanta, GA 30326, (404) 266-6048

Aiken, South Carolina • Albany, Georgia • Anniston, Alabama • Asheville, North Carolina • Athens, Georgia
Atlanta, Georgia (Atlanta Financial Center, Landmark Building, Interstate North) • Auburn/Opelika, Alabama
Augusta, Georgia • Birmingham, Alabama • Charleston, South Carolina • Charlotte, North Carolina
Columbia, South Carolina • Columbus, Georgia • Decatur, Alabama • Gainesville, Georgia • Greenville, South Carolina
Greenwood, South Carolina • Hilton Head Island, South Carolina • Huntsville, Alabama • Jacksonville, Florida
Macon, Georgia • Memphis, Tennessee • Mobile, Alabama • Montgomery, Alabama • Nashville, Tennessee
Pensacola, Florida • Raleigh, North Carolina • Savannah, Georgia • Spartanburg, South Carolina • Tallahassee, Florida
Valdosta, Georgia • Winston-Salem, North Carolina

A Subsidiary of Shearson/Lehman Brothers Inc.

Member SIPC

APPA Electric Cooperative Members

TRI-STATE GEN. & TRANS. ASSN.
Box 33695, Denver, Colo. 80233
Daniel E. MacLeod, gen. mgr.
303/452-6111

LEE COUNTY ELECTRIC COOPERATIVE
Box 3455, N. Ft. Myers, Fla. 33903
James D. Sherfey, gen. mgr.
813/995-2121†

SEMINOLE ELECTRIC COOPERATIVE
Box 272000, Tampa, Fla. 33688
William Walbridge, gen. mgr.
815/963-0994

SOYLAND POWER COOPERATIVE
Box A1606, Decatur, Ill. 62525
E. H. Williams, gen. mgr.
217/423-8000

WOLVERINE POWER SUPPLY COOPERATIVE INC.
Box 369, Boyne City, Mich. 49712
Raymond Cristell, gen. mgr.
616/582-6572

GLACIER ELECTRIC COOPERATIVE
Box 358, Cut Bank, Mont. 59427
David W. Chapman, mgr.
406/873-5566

BASIN ELECTRIC POWER COOPERATIVE
1717 E. Interstate Ave.
Bismarck, N.D. 58501
Robert L. McPhail, gen. mgr.
701/223-0441

CENTRAL POWER ELECTRIC COOPERATIVE
Box 1576
Minot, N.D. 58701
Gary Williamson, gen. mgr.
701/852-4407

OREGON RURAL ELECTRIC COOPERATIVE ASSOCIATION
575 Union Street, N.E.
Salem, Ore. 97301
Mark Glaess, gen. mgr.
503/585-9988

SALEM ELECTRIC COOPERATIVE
Box 5588, Salem, Ore. 97304
Jere Overs, gen. mgr.
503/362-3601

ALLEGHENY ELECTRIC COOPERATIVE INC.
Box 1266, Harrisburg, Pa. 17108
William F. Matson, exec. vice pres.
717/233-5704

EAST RIVER ELECTRIC POWER COOPERATIVE
Lock Drawer E, Madison, S.D. 57042
Loren Zingmark, gen. mgr.
605/256-4536

GARKANE POWER ASSOCIATION
Box 748, Richfield, Utah 84701
Glen P. Willardson, gen. mgr.
801/896-5403†

VERMONT ELECTRIC COOPERATIVE INC.
School Street, Johnson, Vt. 05656
William J. Gallagher, exec. mgr.
802/635-2331

WASHINGTON ELECTRIC COOPERATIVE INC.
Box 8, East Montpelier, Vt. 05651
Robert Toombs, mgr.
802/223-5245

APPA Corporate Associate Members

ARNOLD & PORTER
1200 New Hampshire Ave. N.W.
Washington, D.C. 20036
202/872-6700

BEAR, STEARNS & CO.
55 Water St.
New York, N.Y. 10041
212/952-5740

BECHTEL POWER CORP.
Box 3965
San Francisco, Cal. 94104
415/768-1234

R.W. BECK & ASSOCIATES
Tower Building
7th Ave. at Olive Way
Seattle, Wash. 98101
206/622-5000

BLACK & VEATCH
Box 8405
Kansas City, Mo. 64114
913/967-2000

BURNS & McDONNELL
Box 173
Kansas City, Mo. 64141
816/333-4375

CH2M HILL, INC.
1500 114th Ave., S.E.
Bellevue, Wash. 98009
206/453-5000

CANADA WIRE & CABLE LTD.
250 Ferrand Dr.,
Don Mills, Ontario M3C 3J4
416/424-5000

CITIBANK, N.A.
55 Water St.
New York, N.Y. 10043
212/668-3731

CLEARY, GOTTLIEB, STEEN & HAMILTON
One State St. Plaza
New York, N.Y. 10004
212/344-0600

CROCKER NATIONAL BANK
111 Sutter St., Suite 626
San Francisco, Cal. 94104
415/983-2000

DEAN WITTER REYNOLDS INC.
130 Liberty St.
New York, N.Y. 10006
212/524-3639

DEBEVOISE & PLIMPTON
875 Third Ave.
New York, N.Y. 10022
212/909-6303

DILLON, READ & CO. INC.
535 Madison Ave.
New York, N.Y. 10022
212/906-7000

DONALDSON LUFKIN & JENRETTE
140 Broadway—49th Floor
New York, N.Y. 10005
212/902-2429

DUNCAN, WEINBERG & MILLER
1775 Pennsylvania Ave., N.W.
Washington, D.C. 20006
202/467-6730

EBASCO SERVICES INC.
Two World Trade Center
New York, N.Y. 10048
212/839-2000

ELECTRIC POWER RESEARCH INSTITUTE
Box 10412
Palo Alto, Cal. 94303
415/855-2000

THE FIRST BOSTON CORP.
12 E. 49th St.
Tower 49
New York, N.Y. 10017
212/909-2921

GENERAL ELECTRIC CO.
1100 Western Ave.
Lynn, Mass. 01910
617/594-0100

GILBERT COMMONWEALTH
209 East Washington Ave.
Jackson, Mich. 49201
517/788-3000

GOLDMAN, SACHS & CO.
85 Broad St.
New York, N.Y. 10004
212/902-1000

HENNINGSON, DURHAM & RICHARDSON
8404 Indian Hill Dr.
Omaha, Neb. 68114
401/399-1000

KIDDER, PEABODY & CO.
10 Hanover Square,
New York, N.Y. 10005
212/510-3000

E.F. HUTTON & CO., INC.
7 Hanover Sq.
New York, N.Y. 10004
212/208-5419

LUTZ, DAILY & BRAIN CONSULTING ENGINEERS
Box 718
Shawnee Mission, Kan. 66201
913/831-0833

THE C. T. MAIN CORP.
Prudential Center
Boston, Mass. 02199
617/262-3200

MERRILL LYNCH CAPITAL MARKETS
One Liberty Plaza
New York, N.Y. 10080
212/637-7455

MORGAN GUARANTY TRUST CO.
23 Wall St.
New York, N.Y. 10015
212/483-2323

MORGAN STANLEY & CO.
1251 Avenue of The Americas
New York, N.Y. 10020
212/974-4000

MUDGE ROSE GUTHRIE ALEXANDER & FERDON
180 Maiden Lane
New York, N.Y. 10005
212/510-7512

JOHN NUVEEN & CO., INC.
3818 Bank of California Center
900 4th Ave.
Seattle, Wash. 98164
206/587-0959

PEAT, MARWICK, MITCHELL & CO.
1601 Elm St.
Dallas, Texas 75207
214/754-2000

PRUDENTIAL-BACHE SECURITIES
100 Gold St.
New York, N.Y. 10292
212/791-3685

SALOMON BROTHERS INC.
One New York Plaza
New York, N.Y. 10004
212/747-6135

SECURITY PACIFIC NATIONAL BANK
333 South Hope St.
Los Angeles, Ca. 90071
213/613-6211

SHEARSON LEHMAN BROTHERS
American Express Tower
World Financial Center
New York, N.Y. 10285-1600
212/298-2550

SMITH BARNEY, HARRIS UPHAM & CO.
1345 Ave. of the Americas
New York, N.Y. 10105
212/399-6354

SPIEGEL & McDIARMID
Suite 1100, 1350 New York Avenue, N.W.
Washington, D.C. 20005-4798
202/879-4000

STANDARD & POORS CORP.
25 Broadway
New York, N.Y. 10004
212/248-7966

STANLEY CONSULTANTS INC.
Stanley Building
Muscatine, Iowa 52761
319/264-6423

---

† denotes DEED membership.

STEARNS-CATALYTIC CORP.
Box 5888
Denver, Colo. 80217
303/692-2468

STONE & WEBSTER MANAGEMENT CONSULTANTS
One Penn Plaza, Box 1265
New York, N.Y. 10116
212/290-7190

UTILITY POWER CO.
Box 180
Bradenton, Fla. 33506
813/748-2000

U.S. DEPARTMENT OF ENERGY LIBRARY
1000 Independence Avenue S.W.
MA232.2/Forrestal Building
Washington, D.C. 20585
202/252-5000

VERNER LIIPFERT BERNHARD MCPHERSON AND HAND
Suite 1000, 1660 L St.N.W.
Washington, D.C. 20036
202/775-1000

VOLT ENERGY SYSTEMS INC.
Suite 200, 1100 E. Orangethorpe Ave.
Anaheim, Cal. 92801
714/758-0501

WESTINGHOUSE ELECTRIC CORP.
Westinghouse Bldg., Gateway Center
Pittsburgh, Pa. 15222
412/255-3800

WOOD DAWSON SMITH & HELLMAN
17 Battery Pl.
New York, N.Y. 10004
212/244-0450

APPA Individual Associate Members

Pentti J. Aalto
90 Newton Ave.
Braintree, Mass. 02184

Robert Adler
Shearson Lehman Brothers
2 World Trade Center
New York, N.Y. 10048

Alvin R. Anderson
James M. Montgomery Consulting Engineers
624 North 300 West
Salt Lake City, Utah 84103

J.R. Anderson
Mobil Coal Producing Inc.
Box 17772
Denver, Colo. 80217

Thor L. Anderson
Sverdrup & Parcel & Associates Inc.
417 Montgomery St.
San Francisco, Cal. 94104
415/392-8927

Thomas K. Anson
Vinson & Elkins
816 Congress-First City Center
Austin, Texas 78701
512/478-2500

Craig Atwater
Moody's Investor Service
99 Church St.
New York, N.Y. 10007
212/553-0327

Phillip J. Balcer
DMC Energy Inc.
180 West Nyack Rd.
West Nyack, N.Y. 10994

Elwood Barce
Speer Financial Inc.
55 E. Monroe, Suite 4510
Chicago, Ill. 60603
312/346-3700

Bruce F. Barnes Jr.
Barnes Henry Meisenheimer & Gende
4658 Gravois Ave.
St. Louis, Mo. 63116
314/352-8630

Robert F. Barrett
AMBAC Indemnity
1 State Street Plaza
New York, N.Y. 10004
212/668-0340

A. J. Belvedere
Colt Industries
701 Lawton Ave.
Beloit, Wis. 53511

Gary R. Benjamin
Champion Inc.
Box 490
Iron Mountain, Mich. 49801

Park Benjamin
Manufacturers Hanover Trust Co.
270 Park Ave., 4th Floor
New York, N.Y. 10017
212/286-2482

Arnold D. Berkeley
Arnold D. Berkeley Law Office
1819 H St., N.W., Suite 360
Washington, D.C. 20006
202/785-0611

James J. Berry
Smith & Gillespie Engrs.
Box 53138
Jacksonville, Fla. 32201
904/743-6950

Derek D. Best
AMT Inc.
2400 N.W. 39th Ave.
Miami, Fla. 33142

Paul Bjorn
Price Waterhouse
1900 Central National Bank Bldg.
Cleveland, Ohio 44114
216/781-3700

Richard J. Blumenfeld
Arthur Andersen & Co.
Spear St. Plaza, Suite 3600
San Francisco, Cal. 94105
415/546-8361

Gregory L. Booth
Booth & Associates Inc.
1011 Schaub Dr.
Raleigh, N.C. 27606

George C. Bornscheuer
Gibbs & Hill Inc.
1225 19th St. N.W.
Washington, D.C. 20036

Carl Boronkay
Metropolitan Win Dist. of Southern California
Box 54153, Terminal Annex
Los Angeles, Cal. 90054
213/250-6211

Kay Bowman
Network Computing Corp.
5301 77 Center Dr.
Charlotte, N.C. 28210
704/525-8810

Richard Boynton
Pyropower Corp.
Box 85480
San Diego, Cal. 92138

Jene Bramel
Air Clean Damper Co.
Box 36162,
Cincinnati, Ohio 45236
513/793-1253

Michael J. Brophy
Ryley, Carlock & Applewhite
101 N. First Ave., Suite 2600
Phoenix, Ariz. 85003

Robert S. Bruce
Morrison-Knudsen Engineers
Box 7808
Boise, Idaho 83729

Stephen Bucalo
Plantec Corp.
Box 52507
Jacksonville, Fla. 32201

William H. Burchette
Heron, Burchette et al
1025 Thomas Jefferson St. N.W.
Washington, D.C. 20007
202/775-9141

Alan A. Burgess
Arthur Andersen & Co.
133 Peachtree St., N.E. #2689
Atlanta, Ga. 30303
404/658-1776

Steven C. Butterworth
Bibb & Associates Inc.
Box 37, Shawnee Mission, Kan. 66201

William J. Callazzo
Terraqua Resources Corp.
200 N. Warner Rd., Suite 300
King of Prussia, Pa. 19406

Leonard M. Campbell
Gorsuch Kirgis Campbell Walker & Grover
1200 American National Bank Bldg.
Denver, Colo. 80202

David E. Cardwell
Holland & Knight
Drawer BW
Lakeland, Fla. 33802
813/682-1161

J. Vincent Carey
Alpha Omega International Corp.
12919 Lake Ave.
Lakewood, Ohio 44107

F. R. Carpentier
United Engineers & Constrs. Inc.
Box 8223
Philadelphia, Pa. 19101
215/422-3000

Edward H. Chan
ECC Inc.
1530 The Alameda, Suite 300
San Jose, Cal. 95126

M. L. Chan
ECC, Inc.
1530 The Alameda, Suite 300
San Jose, Cal. 95126
408/280-5494

Janjai Chayavadhanangkur
Southern Engineering Co. of Georgia
1800 Peachtree St., N.W.
Atlanta, Ga. 30367

David K. Chodat
85 Fisher St.
Medway, Mass. 02053

Jim B. Clarke
Korn/Ferry International
1800 Century Park E. #900
Los Angeles, Cal. 90067

Jeff Clements
DuBois Chemicals
DuBois Tower 511 Walnut St.
Cincinnati, Ohio 45202

Warren R. Cobean Jr.
Burns & Roe Inc.
550 Kinderkamack Rd.
Oradell, N.J. 07649
201/265-2000

O. Wayne Corley
McNair Glenn Konduros & Corley
Box 11390
Columbia, S.C. 29211
803/799-9800

Charles B. Crane
Marsh & McLennan Inc.
720 Olive Way
Seattle, Wash. 98101

George W. Cregg Sr.
Financing Consultant
932 Onondaga Rd.
Camillus, N.Y. 13031
315/468-1479

Thomas S. Currier
Dewey Ballantine Bushby Palmer & Wood
140 Broadway, #4364
New York, N.Y. 10005

Alvin D. Curtis
Campbell, Deboe & Associates Inc.
3131 Executive Parkway
Toledo, Ohio 43606
419/531-2000

ASSOCIATE MEMBERS
(continued)

Tim Daley
Fuel Control Corp.
Box 35814
Minneapolis, Minn. 55435-0814

William G. Davidson
Ferranti International Controls Corp.
Box 5012
Sugar Land, Texas 77487-5012

Harry E. Davitian
Entek Research Inc.
11 Satterly Rd.
East Setauket, N.Y. 11733

Nancy M. Deprey
Union Mutual
2211 Congress St.
Portland, Maine 04105

Michael G. Derrick
Siemens-Allis
2888 Woodcock Blvd., #300
Atlanta, Ga. 30341

C. Brooke Dormire
Dewey Ballantine Bushby Palmer & Wood
101 Park Ave.
New York, N.Y. 10178

Tom C. Dortch
Multi-Amp Corp.
4271 Bronze Way
Dallas, Texas 75237

Edmond R. Dougherty
Sperry-Univac
4210 Johnson Dr., Suite 200A
Shawnee Mission, Kan. 66205

Gerard T. Drumm
Bankers Trust Co./Pub. Finance
280 Park Ave., 9 W
New York, N.Y. 10015
212/775-2445

C. Emerson Duncan II
Duncan, Allen and Mitchell
1575 Eye St. N.W.
Washington, D.C. 20005
202/289-8400

Richard J. Durofchalk
Coopers & Lybrand
1900 Three Girard Plaza
Philadelphia, Pa. 19102
215/587-5000

Kenneth W. Duvall
Southern Electric International Inc.
3500 Piedmont Rd. N.E., #500
Atlanta, Ga. 30305
404/261-4700

Bruce L. Edwards
Henningston Durham & Richardson
1100 Eastlake Ave. East
Seattle, Wash. 98109

Robert L. Ehlers
Ehlers and Associates Inc.
507 Marquette Ave.
Minneapolis, Minn. 55402
612/339-8291

Rhonda L. Elliott
Union Bank
445 South Figueroa St.
Los Angeles, Cal. 90071

Dennis J. Enright
Thomson McKinnon Securities
1 New York Plaza
New York, N.Y. 10004

T. Brooke Farnsworth
Farnsworth & Martin, P.C.
333 North Belt, Suite 810
Houston, Texas 77060

Roger D. Feldman
Nixon Hargrove Devans & Doyle
1090 Vermont Ave. N.W., #1200
Washington, D.C. 20036
202/842-3600

Stephen Finch
Dexsil Chemical Corp.
295 Treadwell St.
Hamden, Conn. 06514

Roland C. Fischer
Colorado River Water Cnsv. Dist.
Box 1120, Glenwood Springs, Colo. 81602

Walter W. Fishback
Hartford Steam Boiler Co.
One State St.
Hartford, Conn. 06102
203/722-5624

John E. Fisher
Lawson-Fisher Associates
525 W. Washington St.
South Bend, Ind. 46601

Michael A. Fitzgerald
Alexander & Alexander
60 State St.
Boston, Mass. 02109

Cliff Forsgren
Janes Montgomery Consulting Engineers
250 N. Madison Ave.
Pasadena, Cal. 91101

Thomas Gamello
Prescott Ball & Turben
1 World Trade Center, 56th Floor
New York, N.Y. 10048
212/938-7200

T. Michael Garrison
A. C. Kirkwood & Associates
8080 Ward Parkway, Suite 200
Kansas City, Mo. 64114
816/333-4477

Francis B. Garvey
Wertheim & Co., Inc.
200 Park Ave.
New York, N.Y. 10166
212/578-0735

T. R. Garwick
SAB Harmon Industries Inc.
Box 600,
Grain Valley, Mo. 64029

Ralph J. Gillis
Box 19, Weymouth, Mass. 02191
617/331-1235

Webb R. Gilmore
Gaar & Bell
State 1620 City Ctr. Sq.
1100 Main
Kansas City, Mo. 64105

Gerard Giordano
Leboeuf Lamb Leiby & Macrae
520 Madison Ave.
New York, N.Y. 10022
212/715-8000

Andrew C. Givens
Booth & Associates, Inc.
1011 Schaub Dr.
Raleigh, N.C. 27606

John J. Golian
Graybar Electric Company, Inc.
Box 7231, Clayton, Mo. 63177

Samuel S. Granberg
Seattle Northwest Securities Corp.
Seafirst 5th Ave. Plaza, #3700
Seattle, Wash. 98104

Duncan C. Gray
Kidder Peabody & Co. Inc.
10 Hanover Sq.
New York, N.Y. 10005
212/747-7960

Robert M. Greening Jr.
Tooze, Marshall, Shenker, Holloway & Duden
333 SW Taylor St.
Portland, Ore. 97204

J. H. Gruber
The Issue Scope Co.
Box 533
Gates Mills, Ohio 44040

C.H. Guernsey Jr.
National Foundation West Bldg.
3555 N.W. 58th
Oklahoma City, Okla. 73112
405/947-5515

Gary D. Gustafson
Nebraska Power Review Board
Box 94713, Lincoln, Neb. 68509
402/471-2301

Richard Y. Guthrie
American National Bank & Trust Co.
33 North La Salle St.
Chicago, Ill. 60690
312/661-6118

Jess L. Haley
Gregory-Grace/Jess Haley Div.
Box 369, Clarksdale, Miss. 38614

R. G. Haley
R. G. Haley Co. Inc.
Spitzer Bldg.
Toledo, Ohio 43604

J. C. Hall
First Southwest Co.
800 Mercantile Dallas Building
Dallas, Texas 75201
214/742-6461

Nigel Harris
Harris Computer Systems
16 Credit Union Way
Nepean, Ontario, K2H 8R6

Lloyd Harvego
Resource Mgmnt. International Inc.
Box 254800
Sacramento, Cal. 95865
916/924-1534

R. Eugene Herritz
Virchow Krause & Co.
Box 7398, Madison, Wis. 53707
608/249-6622

John Higley
Energy Management Associates Inc.
100 Northcreek, Suite 500
Atlanta, Ga. 30327
404/261-5256

Phillip H. Holm
50 South Main St., Suite 800
Salt Lake City, Utah 84144
801/533-0066

W. N. Holway
Benham-Holway Power Group
5314 South Yale, Park Towers
Tulsa, Okla. 74135
918/492-1600

Paul Hoppe
Brown Boveri Turbomachinery
Box 1839
St. Cloud, Minn. 56302

Sheldon K. Howard
Orr-Schelen-Mayeron & Associates
3435 Riverside Dr.
Beloit, Wis. 53511
608/362-0949

Jack D. Howe
Wheat First Securities Inc.
Box 1357
Richmond, Va. 23211
804/649-2311

Dale W. Imus
Desert Public Power Association Inc.
305 Sycamore Circle
Palm Springs, Cal. 92262

Norman P. Ingraham
SAI Engineers Inc.
3030 Patrick Henry Dr.
Santa Clara, Cal. 95051
408/727-6328

Masazumi Inohana
The Tokyo Electric Power Co.
1901 L St. N.W.
Washington, D.C. 20036

Donald F. Jackson
Box 721, Newport, Ore. 97365
503/867-3293

Paul Jancu
L.F. Rothschild, Unterberg, Towbin
One Penn Plaza, 46th Floor
New York, N.Y. 10119

Hyland R. Johns
Asplundh Tree Expert Co.
Blair Mill Rd.
Willow Grove, Pa. 19090

T. A. Johnston
GA Technologies Inc.
Box 85608
San Diego, Cal. 92138

ASSOCIATE MEMBERS
(continued)

John C. Jones
Illman Jones, Inc.
1111 Green Island Rd.
American Canyon, Cal. 94589

Richard D. Jones
ZDC Inc.
6565 Odell Place
Boulder, Colo. 80301
303/949-9949

Richard M. Jones
O'Melveny & Myers
400 South Hope St.
Los Angeles, Cal. 90071

Wayne Joyce
Joyce, Gray & Associates, Inc.
RR #1, Box 102 E
Norman, Okla. 73069

John D. Julien
H.J. Umbaugh and Associates
1500 Oak Rd.
Plymouth, Ind. 46563

David Kagan
L. F. Rothschild Unterberg Towbin
1 Penn Plaza, 46th Floor
New York, N.Y. 10119
212/279-2500

John C. Keane
Cont. Illinois Nat. Bank & Trust
231 S. La Salle St. 5-C
Chicago, Ill. 60693
312/828-4362

Richard S. Kendall
Packard Press
475 Park Ave., S. 11th Floor
New York, N.Y. 10016

Peter J. Kenny
Willkie Farr & Gallagher
153 East 53rd St., One Citicorp
New York, N.Y. 10022

Thomas C. Kirkwood
A. C. Kirkwood & Associates
8080 Ward Parkway, Suite 200
Kansas City, Mo. 64114
816/333-4477

Alex H. Kish
Brent Millikan & Co., P.A.
Box 1226
New Smyrna Beach, Fla. 32070

Peter Kissel
O'Connor & Hannan
1919 Penn. Ave., N.W. #800
Washington, D.C. 20006
202/887-1400

Louis H. Knapp
Cresap, McCormick & Paget
2101 L St. N.W., #400
Washington, D.C. 20037

William K. Kramer
Morrison & Foerster
333 S. Grand Ave., Suite 3800
Los Angeles, Cal. 90071
213/626-3800

Mitchell Kress
Booz, Allen & Hamilton Inc.
4330 East-West Highway
Bethesda, Md. 20814
301/931-2200

John D. Kuhns
Catalyst Energy
180 Maiden Lane
New York, N.Y. 10038

Arthur H. Kuljian
The Kuljian Corp.
3700 Science Center
Philadelphia, Pa. 19104

Susan Lackamp
Renaissance Printing, Inc.
200 Hudson St., 5th Floor
New York, N.Y. 10013

Joseph C. Lane
First National Bank of Chicago
1 First National Plaza, #0363
Chicago, Ill. 60670

Merlin T. Lebakken
Power System Engineering Inc.
101 West Beltline Highway
Madison, Wis. 53713
608/251-3155

William M. Lewis Jr.
William M. Lewis Jr. & Assoc.
Box 1383
Portsmouth, Ohio 45662
614/354-3238

Stanley L. Livengood
Arch W. Roberts & Co.
Box 13394
Gainesville, Fla. 32604

Robert Loveless
Pandick Press
345 Hudson St.
New York, N.Y. 10014

Ronald C. Lutwen
Solid Fuel Technology Inc.
5650 W. Central Ave., Suite A
Toledo, Ohio 43615

Robert MacDonald
James J. Lowrey & Co. Inc.
110 Wall St., 27th Floor
New York, N.Y. 10005
212/363-2000

Peter Madonia
Bankers Trust Co.
Box 318
Church Street Station
New York, N.Y. 10015

Robert O. Marritz
Culp, Dwyer, Guterson & Grader
2700 One Union Sq.
Seattle, Wash. 98101

Frank Martin
Financial Consulting Services
155 West 68 St.
New York, N.Y. 10023

Steven S. McAleer
Municipal Issuers Service Corp.
445 Hamilton Ave., Box 788
White Plains, N.Y. 10602

Robert L. McCarty
McCarty, Noone & Williams
490 L'Enfant Plaza E. #2306
Washington, D.C. 20024
202/554-2955

David Mendendorp
Nacon Corp.
6222 Brookwood Rd.
Norcross, Ga. 30092

Robert Meredith
Harza Engineering Co.
150 S. Wacker Dr.
Chicago, Ill. 60606

Joel Mesznik
Drexel Burnham Lambert Inc.
60 Broad St.
New York, N.Y. 10004
212/480-7810

Bertram Metzger Jr.
Riley, Skellenger, Ginsberg
1111 Third Ave., Suite 1500
Seattle, Wash. 98101

Richard J. Miller, Esq.
Alexander & Green
299 Park Ave.
New York, N.Y. 10171
212/758-6900

Richard R. Miller
Dain Bosworth, Inc.
100 Dain Tower, 4th Floor
Minneapolis, Minn. 55402
612/371-2711

Robert P. Mitchell
Sherman & Howard
633 17th St.—2900 Intrawest
Denver, Colo. 80202

Maynard L. Moe
Dencor
1450 West Evans
Denver, Colo. 80223

Richard Mohr
Jas. Montgomery/Consul. Engrs.
250 North Madison Ave.
Pasadena, Cal. 91101

Griff R. Morris
Matthews & Wright
14 Wall St.
New York, N.Y. 10005
212/267-4470

James Morris
Deloitte Haskins & Sells
1200 Travis
Houston, Texas 77002

R.L. Morris
Ferranti International Controls Corp
Box 5012
Sugar Land, Texas 77487-5012

Gordon Mortin
Lex Jolley Inc.
1508 William Oliver
Atlanta, Ga. 30303
404/525-1859

John J. Murphy
Sorg Printing Co. of Illinois
650 West Washington Blvd.
Chicago, Ill. 60606

G.Philip Nowak
Arnold & Porter
1200 New Hampshire Ave., N.W.
Washington, D.C. 20036
202/872-6807

Richard L. Olson
Boardman Suhr Curry & Field
Box 927, Madison, Wis. 53701-0927
608/257-9521

John E. Olsson
Olsson Associates
Suite 611, NBC Center
Lincoln, Neb. 68508

Richard Osann
Sorg Printing Co., 111 8th Ave.
New York, N.Y. 10011
202/741-6600

James G. Pearce
William S. Watkins & Assoc.
1150 W. 3rd St.
Cleveland, Ohio 44113

John W. Pestle
Varnum, Riddering & Schmidt
800 Mutual Home Building
Grand Rapids, Mich. 49503
616/459-4186

Michael S. Peters
Structural Metals Inc.
Box 911, Seguin, Texas 78155

William T. Phelan
Porta Printer Systems, Inc.
12505-M Starkey Rd.
Largo, Fla. 33543

Herbert R. Phelps
Phelps, Hogland & Phillips
3438 Scott
Independence, Mo. 64052

J. J. M. Plante
Stone & Webster Engn. Corp.
Box 5406, Denver, Colo. 80217

Frank Pond
First Boston Corp.
1 Park Avenue Plaza, 6th Floor
New York, N.Y. 10055
212/909-3554

Jeffrey L. Premo
Downes Associates Inc.
Rt. 6, Box 688, Delmar Rd.
Salisbury, Md. 21801
301/546-4422

Richard L. Preston
Scientific Atlanta Inc.
4300 N.E. Expwy., Box 105038
Atlanta, Ga. 30348
404/449-2000

Ken Prevatte
Sangamo Weston Inc.
Box 48400, Atlanta, Ga. 30362

Robert Prince
Financial Collection Agencies
80 W. Lancaster Ave., #300
Devon, Penn. 19333

R. David Ragle
Stock Equipment Co.

16490 Chillicothe Rd.
Chagrin Falls, Ohio 44022

Ronald Rash
James M. Montgomery
624 North 300 West
Salt Lake City, Utah 84144

David S. Richey
225 West Main St.
Box 666, Lebanon, Ind. 46052

Frederick H. Ritts
Ely, Ritts, Brickfield and Betts
600 New Hampshire Ave., N.W.
Washington, D.C. 20037
202/342-0800

R. B. Robertson
Bovay Engineers Inc.
Box 15728, Baton Rouge, La. 70815
504/293-3661

Donald J. Robinson
Hawkins Delafield & Wood
67 Wall St.
New York, N.Y. 10005

A. Francis Robinson Jr.
Brown Wood Ivey Mitchell & Petty
One World Trade Center
New York, N.Y. 10048
212/839-5323

Randall B. Roe
Burns and Roe
1400 K St. N.W., #910
Washington, D.C. 20006

George I. Roen
Cresap, McCormick & Paget
595 Market St. #1200
San Francisco, Cal. 94105
415/781-8421

David Rose
James J. Lowrey & Co.
110 Wall St.
New York, N.Y. 10005

Marshall A. Rose
NTR Sales Co.
Box 124, Malibu, Cal. 90265

James B. Rosier
Daverman Associates
82 Ionia Ave. N.W.
Grand Rapids, Mich. 49503

Randy Ross
NCNB National Bank
#1 NCNB Plaza
Charlotte, N.C. 28255

Ross L. Rumore
University Computing Co.
1930 Hi Line Dr.
Dallas, Texas 75207

John D. Ryan
Combustion Engineering Inc.
1000 Prospect Hill Rd.
Windsor, Conn. 06095
203/688-1911

Joseph Ryan
O'Melveny & Myers, 400 S. Hope St.
Los Angeles, Cal. 90071
213/669-6000

Gary S. Saleba
Economic & Engineering Services, Inc.
Box 4046, Bellevue, Wash. 98009
206/451-8015

Gregg Sammons
Boettcher & Co.
121 S.W. Salmon, Suite 1515
Portland, Ore. 97204

Curt Schwalbe
O'Brien & Gere Engineers
Box 4873
Syracuse, N.Y. 13221

Timothy D. Seise
Plantec Corp.
6777 Southpoint Drive South
Box 52507
Jacksonville, Fla. 32201

Robert L. Setzer
Robinson Humphrey/American Express
3333 Peachtree Rd. N.E.
Atlanta, Ga. 30326
404/256-6038

Robert M. Shepherd
Donovan Leisure Newton & Irvine
30 Rockefeller Plaza
New York, N.Y. 10012

Philip Sherlock
Dames & Moore
4950 West Kennedy Blvd.
Suite 410
Tampa, Fla. 33609
813/875-8720

Charles D. Silberstein
Financial Guaranty Insurance
175 Water St., 15th Floor
New York, N.Y. 10038

Damon D. Simpson
Gibbs & Hill, Inc.
1250 14th St., Suite 630
Denver, Colo. 80202

Terri A. Smalinsky
First National Bank of Chicago
1 First National Plaza #0401
Chicago, Ill. 60670
312/732-6808

Bernard L. Smith Jr.
Bond Investors Guaranty
70 Pine St., 47th Floor
New York, N.Y. 10270

David L. Smith
Gaar & Bell
1620 City Ctr. Sq.
1100 Main
Kansas City, Mo. 64105

Douglas L. Smith
Planmetrics Inc.
18 E. 48th St., 21st Floor
New York, N.Y. 10017

Gilbert B. Sorg
Sorg Printing Co.
111 8th Ave.
New York, N.Y. 10011
212/741-6600

Milford Sprecher
Arthur Young & Co.
1025 Connecticut Ave. N.W.
Washington, D.C. 20036

Wendy K. Stadnyk
MBIA, 445 Hamilton Ave.
White Plains, N.Y. 10601

Thomas Stanton
Psychological Associates, Inc.
8201 Maryland Ave.
St. Louis, Mo. 63105
314/862-9300

Dan T. Stathos
Deloitte Haskins & Sells
500 N. Akard, #1400
Dallas, Texas 75201
214/954-4500

Shelley Stein
AMBAC Indemnity
1 State Street Plaza
New York, N.Y. 10004
212/668-0340

Peter K. Sternad
Bank of America, #5164
555 South Flower St., 48th Fl.
Los Angeles, Cal. 90071
213/228-4244

Robert H. Stevenson
Megatherm
803 Taunton Ave.
East Providence, R.I. 02914
401/438-3800

Norman A. Stoll
Stoll & Stoll
735 S.W. 1st Ave.
Portland, Ore. 97204

Joe A. Stoltz
MATSCO
4271 Bronze Way
Dallas, Texas 75237
214/333-3201

Harold J. Straka
Price Waterhouse
One Centerre Plaza
St. Louis, Mo. 63101

Z. Stanley Stys
Brown Boveri Corp.
1460 Livingston Ave.
North Brunswick, N.J. 08902

Glenn H. Sullivan
Benham-Holway Group
1 Benham Place, Box 20400
Oklahoma City, Okla. 73156

John S. Tamagni
Lazard Freres and Co.
1 Rockefeller Plaza
New York, N.Y. 10020
212/489-6600

J. Leroy Thilly
Boardman, Suhr, Curry Field
Box 927, Madison, Wis. 53701
608/257-9521

Robert D. Thorington
Johnson & Thorington
Drawer 1748, Montgomery, Ala.
36103, 205/834-6222

Philip L. Toia
Chase Manhattan Bank
1 Chase Manhattan Plz., 25th Floor
New York, N.Y. 10081

J. V. Tomai, III
Network Computing Corp.
5301 77 Center Drive, Suite 40
Charlotte, N.C. 28210

Martha Tuttle
L. F. Rothschild, Unterberg, Towbin
55 Water St.
New York, N.Y. 10041
212/425-2542

James B. Vasile
Newman and Holtzinger
1615 L St. N.W., Washington, D.C.
20036, 202/955-6600

Richard J. Vensas
Daverman Associates
8920 Business Park Drive, #280
Austin, Texas 78757

James J. Victory
Kvaerner Hydropower
9057 Soquel Dr.
Aptos, Cal. 95003
408/688-6464

Caren S. von Hippel
Wormser Engineering
225 Merrimac St.
Woburn, Mass. 01801

L. E. Voss
Consulting Group—Lincoln
1055 Stuart Building
Lincoln, Neb. 68508
402/475-1511

Stephen Walke Jr.
Paterson, Walke & Pratt
Box 1310, Montpelier, Vt. 05602
802/229-5737

C. Richard Walker
Orrick, Herrington & Sutcliffe
600 Montgomery St.
San Francisco, Cal. 94111
415/392-1122

Edward Watson
City of Rochester, 300 B City Hall
Rochester, N.Y. 14614
716/428-6855

Tom Watson
Crowell & Moring
1100 Connecticut Ave. N.W.
Washington, D.C. 20036
202/452-5843

Alan R. Watts
Rourke & Woodruff
1055 N. Main St., Suite 1020
Santa Ana, Cal. 92701
714/835-6212

Judson Werbelow
Dickinson, Wright, Moon, Van Dusen
& Freeman

ASSOCIATE MEMBERS
(continued)

215 So. Washington Sq., Suite 200
Lansing, Mich. 48933
517/371-1730

Lee C. White
White, Fine & Verville
1156 15th St. N.W. #1100
Washington, D.C. 20005
202/659-2900

Vicki Whorten
Enercom/Equifax Services, Inc.
Box 4081, Atlanta, Ga. 30302

Raymond Whritenour
BBCWA
70 Kakeout Rd.
Butler, N.J. 07405

David C. Willer
Tudor Engineering Co.
301 Mission
San Francisco, Cal. 94105

Christopher D. Williams
McCarty, Noone & Williams
490 L'Enfant Plaza E, Suite 3306
Washington, D.C. 20024
202/554-2955

W. J. Williams Jr.
Wright, Lindsey & Jennings
2200 Worthen Bank Building
Little Rock, Ark. 72201

J. L. Williamson
Kearney Div. of Kearney National
Box 49167, Atlanta, Ga. 30329

William C. Wise
4701 Willard Ave.
Apt. 1616
Chevy Chase, Md. 20815 ✹

PUBLIC POWER INDEX—1985

The index is arranged by author and subject. Books reviewed are alphabetized by title.

AUTHORS

- Anderson, Karen
  - Manage your market. Nov.-Dec., p. 10
- Bergman, Michael
  - The next generation of generation (co-author). Sept.-Oct., p. 22.
- Betts, Kirk Howard
  - Transmission options widen. July-Aug., p. 24.
- Blair, Clyde E.
  - Kids listen to line workers. Jan.-Feb., p. 14.
- Bruneel, Larry
  - Smorgasbord of energy solutions. Mar.-Apr., p. 22.
  - The next generation of generation (co-author). Sept.-Oct., p. 22.
- Cafruny, Madalyn
  - National opinion poll gives public power high marks. July-Aug., p. 18.
- Carr, Thomas
  - 50-MW wood-fueled plant working well for Burlington. July-Aug., p. 10.
- Clark, Toni
  - Utility education courses generate cash savings. Sept.-Oct., p. 99.
- Dahl, Patrick
  - Shoulder to shoulder. May-June, p. 36.
- Dennis, Donald F.
  - Wood generation suits Vermont (co-author). July-Aug., p. 14.
- Dresser, Shelley J.
  - Wood generation suits Vermont (co-author). July-Aug., p. 14.
- Gibbons, Anne Marie
  - Many actions in states affecting public power. Jan.-Feb., p. 18.
- Grahl, James L.
  - (interview) Mar.-Apr., p. 30.
- Haas, Larry
  - Should nuclear liability limits be removed? Yes. Sept.-Oct., p. 83.
- Handel, Ted
  - The CWIP chronicle. Jan.-Feb., p. 50.
- Harvego, Lloyd H.
  - Transmission barrier breaking. July-Aug., p. 22.
- Hobart, Lawrence
  - The next generation of generation (co-author). Sept.-Oct., p. 22.
- Holum, Kenneth
  - (interview) Mar.-Apr., p. 30.
- Hoyt, Gordon W.
  - (interview), Sept.-Oct., p. 70.
- Kilmer, Jeannie
  - Local systems budget $5.65 billion for 1985 plant work. Jan.-Feb., p. 54.
  - Public power costs less. May-June, p. 28.
  - Public power contributes more. May-June, p. 33.
- Kirkham, Richard
  - PACS reflect reality. July-Aug., p. 49.
- Knight, Priscilla
  - Inside APPA: Campaign launched to protect preference, cost-based rates. Jan.-Feb., p. 77.
  - Inside APPA: Survey shows wide variance in electricity rate structures and prices. Jan.-Feb., p. 77.
- LaBella, Jeanne Wickline
  - The changing face of competition. July-Aug., p. 28.
- Laing, George W.
  - Utility training on a shoestring. July-Aug., p. 75.
- Mansueti, Larry
  - The next generation of generation (co-author). Sept.-Oct., p. 22.
- Matchett, Suzanne
  - It's a new era for small hydro. Nov.-Dec., p. 81.
- Matson, William F.
  - Build coalitions. July-Aug., p. 47.
- Mrizek, E.J.
  - Helicopter speeds transformer replacement. May-June, p. 62.
- McNeil, Carolyn S.
  - Have access when you need it. July-Aug., p. 45.
- Pape, E.C.
  - Should nuclear liability limits be removed? No. Sept.-Oct., p. 82.
- Parker, Linda
  - How one utility communicates. Mar.-Apr., p. 66.
- Pilon, Fergus
  - Overcoming the obstacles: Columbia River People's Utility District (co-author). Jan.-Feb., p. 10.
- Radin, Alex
  - Outlook and incights: Automation pays off. Jan.-Feb., p. 6.
  - Outlook and insights: Five lessons learned from Grahl and Holum. Mar.-Apr., p. 6.
  - Outlook and insights: The utility industry should take care to keep pace with new technological developments. May-June, p. 2.
  - Outlook and insights: Efficiency and least-cost energy grows in importance. July-Aug., p. 2.
  - Outlook and insights: The NEW YORK TIMES disregarded the facts on hydro relicensing. Sept.-Oct., p. 2.
  - Outlook and insights: Public power systems must become more intimately involved in the political process. Nov.-Dec., p. 2.
- Reinemer, Vic
  - The other side: Whose authority? A variety of agencies fuel public power. Jan.-Feb., p. 80.
  - The other side: Ownership trends of public power. Mar.-Apr., p. 80.
  - The other side: Renew the coalition of consumer-owned power systems and their allies. May-June, p. 80.
  - The other side: Authors of new books are looking at consumer-owned electric systems. July-Aug., p. 88.
  - The other side: Progress—after 10 years—on appliance efficiency standards. Sept.-Oct., p. 100.
  - The other side: Editing technocrats. Nov.-Dec., p. 104.
- Richardson, Alan H.
  - More of the same likely in 99th Congress. Jan.-Feb., p. 32.
- Sells, Sara
  - Overcoming the obstacles: Columbia River People's Utility District (co-author). Jan.-Feb., p. 10.
- Sharlin, Harold Issadore
  - Cogeneration benefits municipals. May-June, p. 80.
- Shreve, E.C.
  - Work hard and talk a lot. July-Aug., p. 49.
- Smith, Carlos C.
  - Municipals granted relief from antitrust damages. Jan.-Feb., p. 45.
- Sprouse, Cindi
  - Kids love energy theatre. May-June, p. 52.
- Statler, Stuart M.
  - Safety begins at home. Jan.-Feb., p. 61.
- Stroup, Louis Jr.
  - Local action is the key. July-Aug., p. 45.
- Swift, Rep. Al
  - (interview), July-Aug., p. 33.
- Swisher, Randy
  - Coalition will fight rail monopoly power. Mar.-Apr., p. 26.
  - Adapt your financing. Nov.-Dec., p. 18.
- Vocate, Donna
  - Improving organizational communication. Mar.-Apr., p. 56.
- Walker, T.O.
  - Use one-on-one approach. July-Aug., p. 51.
- Weidner, Bethany
  - Women in public power. Sept.-Oct., p. 12.
- Winslow, Eric
  - Prolong underground cable use. July-Aug., p. 66.
- Woehrle, Lori A.
  - New Orleans may go municipal. Mar.-Apr., p. 10.
  - Inside APPA: Mar.-Apr., p. 77.
  - Meeting tomorrow's energy needs today. May-June, p. 18.
  - Inside APPA: May-June, p. 79.
  - Inside APPA: July-Aug., p. 87.
  - Inside APPA: Sept.-Oct., p. 99.
  - Sludge shaves peaks at Sturgeon Bay. Nov.-Dec., p. 28.
  - Inside APPA: Nov.-Dec., p. 103.
- York, Thomas
  - Outlook brightens for lead-acid battery. Nov.-Dec., p. 86.
- Zamjahn, June L.
  - Woman plant operator honored. Sept.-Oct., p. 15.

Subjects

- AMERICAN PUBLIC POWER ASSOCIATION see also:
  - ANNUAL CONFERENCE
  - ANNUAL REPORT
  - ANNUAL REPORT CONTEST
  - AWARDS
  - BOARD OF DIRECTORS
  - CONTESTS
  - CUSTOMER SERVICE AND COMMUNICATIONS SECTION/WORKSHOP
  - DEED
  - ENERGY INNOVATOR AWARD
  - ENGINEERING AND OPERATIONS WORKSHOP
  - INSIDE APPA
  - LEGAL SEMINAR
  - PUBLICATIONS
  - UTILITY EDUCATION COURSES
  - New officers elected. July-Aug., p. 29.
- ANAHEIM, CAL.
  - We'll get transmission access—after a fight, says Hoyt (an interview). Sept.-Oct., p. 70.
- ANNUAL CONFERENCE (APPA)
  - 2,000 expected in Los Angeles at annual conference. Mar.-Apr., p. 45.
- ANNUAL REPORT
  - American Public Power Association annual report. May-June, p. 48A.
- ANNUAL REPORT CONTEST (APPA)
  - Inside APPA: Twelve win annual report contest awards, by Lori A. Woehrle. Nov.-Dec., p. 103.
- ANTITRUST AND MONOPOLY
  - Municipals granted relief from antitrust damages, by Carlos C. Smith. Jan.-Feb., p. 45.
- APPLIANCES
  - Safety begins at home, by Commissioner Stuart M. Statler. Jan.-Feb., p. 61.
  - The other side: Progress—after 10 years—on appliance efficiency standards, by Vic Reinemer. Sept.-Oct., p. 100.
- ATHENS, TENN.
  - Meeting tomorrow's energy needs today, by Lori Woehrle. May-June, p. 18.
- AUSTIN, TEXAS
  - Energy innovators honored. July-Aug., p. 52.
  - Inside APPA: Association awards eight grants, five scholarships, by Lori Woehrle. July-Aug., p. 87.
- AWARDS (APPA)
  - Energy innovators honored. July-Aug., p. 52.
  - Photo contest: Here are the winners. Mar.-Apr., p. 18.
  - Twelve receive APPA awards. July-Aug., p. 55.
- BARNETT, JACKIE
  - Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
- BASIN ELECTRIC POWER COOPERATIVE ASSOCIATION
  - Outlook and insights: Five lessons learned from Grahl and Holum, by Alex Radin. Mar.-Apr., p. 2.
  - How giant power came to the plains: an interview with Ken Holum and Jim Grahl. Mar.-Apr., p. 30.
- BASTARACHE, RAYMOND
  - Twelve receive APPA awards. July-Aug., p. 55.
- BATTERY TECHNOLOGY
  - Outlook brightens for lead-acid battery, by Thomas York. Nov.-Dec., p. 86.
- BEYER, GEORGE G.
  - Twelve receive APPA awards. July-Aug., p. 55.
- BIOGAS
  - Sludge shaves peaks at Sturgeon Bay, by Lori A. Woehrle. Nov.-Dec., p. 28.
- BIOMASS
  - 50-MW wood-fueled plant working well for Burlington, By Thomas Carr. July-Aug., p. 10.
  - Wood generation suits Vermont, by Donald F. Dennis and Shelley J. Dresser. July-Aug., p. 14.
  - Michigan expands wood-chip use. July-Aug., p. 13.
- BLINDER, HERBERT I.
  - Inside APPA: Blinder to retire, by Lori A. Woehrle. Mar.-Apr., p. 77.
- BOARD OF DIRECTORS (APPA)
  - New officers elected. July-Aug., p. 29.
- BRISTOL, TENN.
  - How one utility communicates, by Linda Parker. Mar.-Apr., p. 66.
- BUDGETING
  - Local systems budget $5.65 billion for 1985 plant work, by Jeannie Kilmer. Jan.-Feb., p. 54.
- BURLINGTON, VT.
  - 50-MW wood-fueled plant working well for Burlington, by Thomas Carr. July-Aug., p. 10.
  - Wood generation suits Vermont, by Donald F. Dennis and Shelley J. Dresser. July-Aug., p. 14.
- CABLE COMMUNICATION
  - Inside APPA: Results available from survey of public power cable use, by Lori A. Woehrle. Nov.-Dec., p. 103.
- CABLES
  - Prolong underground cable use, by Eric Winslow. July-Aug., p. 66.
- CENTRAL MICHIGAN UNIVERSITY
  - Michigan expands wood-chip use. July-Aug., p. 13.
- CLARK COUNTY PUD
  - Utility training on a shoestring, by George W. Laing. July-Aug., p. 75.
- COAL
  - Coalition will fight rail monopoly power, by Randy Swisher. Mar.-Apr., p. 26.
  - The other side: Keep an eye on coal, by Vic Reinemer. Sept.-Oct., p. 100.
- COAL GASIFICATION
  - The next generation of generation: Breakthroughs transform old approaches, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 52.
- COALITIONS
  - The other side: Renew the coalition of consumer-owned power systems and their allies, by Vic Reinemer. May-June, p. 80.
  - Build coalitions, by William F. Matson. July-Aug., p. 47.
- COGENERATION
  - Cogeneration benefits municipals, by Harold Issadore Sharlin. May-June, p. 10.
  - The next generation of generation: Use of waste heat growing, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 47.
- COLUMBIA, MO.
  - Energy innovators honored. July-Aug., p. 52.
- COLUMBIA RIVER PEOPLE'S UTILITY DISTRICT
  - Overcoming the obstacles: Columbia River People's Utility District, by Sara Sells and Fergus Pilon. Jan.-Feb., p. 10.
- COLUMBUS, OHIO
  - Meeting tomorrow's energy needs today, by Lori A. Woehrle. May-June, p. 18.
- COMBINED-CYCLE POWER PLANTS
  - The next generation of generation: Breakthroughs transform old approaches, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 52.
- COMMUNICATION
  - Improving organizational communication, by Donna Vocate. Mar.-Apr., p. 56.
  - How one utility communicates, by Linda Parker. Mar.-Apr., p. 66.
- COMPETITION
  - The changing face of competition, by Jeanne Wickline LaBella. July-Aug., p. 28.
- COMPUTERS
  - Outlook and insights: automation pays off, by Alex Radin. Jan.-Feb., p. 6.
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 27.
- CONGRESS
  - More of the same likely in 99th Congress, by Alan Richardson. Jan.-Feb., p. 32.
  - Outlook and insights: Public power systems must become intimately involved in the political process, by Alex Radin. Nov.-Dec., p. 2.
- CONSTRUCTION
  - Local systems budget $5.65 billion for 1985 plant work, by Jeannie Kilmer. Jan.-Feb., p. 54.
- CONSTRUCTION WORK IN PROGRESS
  - The CWIP chronicle, by Ted Handel. Jan.-Feb., p. 50.
- CONSUMERS UNITED FOR RAIL EQUITY (CURE)
  - Coalition will fight rail monopoly power, by Randy Swisher. Mar.-Apr., p. 26.
- CONTESTS (APPA)
  - 1984 photo contest: Here are the winners. Mar.-Apr., p. 18.
  - 1985 photo contest, May-June, p. 25; July-Aug., p. 82; Sept.-Oct., p. 36; Nov.-Dec., p. 88.
  - Inside APPA: APPA honors 75 utilities for good safety records, by Lori A. Woehrle. May-June, p. 79.
  - How's your camera eye? Sept.-Oct., p. 36.
  - Inside APPA: Twelve win annual report contest awards, by Lori A. Woehrle. Nov.-Dec., p. 103.
  - Inside APPA: Photo contest entries due Dec. 31; Blinder Chief Judge, by Lori A. Woehrle. Nov.-Dec., p. 103.
- CORRECTIONS
  - Aims Media address, Izaak Walton League of America formation, Hetch Hetchy project output. Mar.-Apr., p. 80.
- COSTS
  - Price of electricity in major cities compared. Jan.-Feb., p. 28.
  - Public power costs less, by Jeannie Kilmer. May-June, p. 28.
- CUSTOMER SERVICE & COMMUNICATIONS SECTION/WORKSHOP (APPA)
  - Inside APPA: Communications workshop and legal seminar ahead, by Lori A. Woehrle. Sept.-Oct., p. 99.
- DEED (DEMONSTRATION OF ENERGY-EFFICIENT DEVELOPMENTS) (APPA)
  - Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
  - The next generation of generation. Who will shoulder the risk? by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 66.
- DIRECTORIES
  - PUBLIC POWER's annual directory. Jan.-Feb., p. D-1.
- DISTRICT HEATING
  - The next generation of generation: use of waste heat growing, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 47.
- DUPEE, ROBERT
  - Twelve receive APPA awards. July-Aug., p. 55.
- EATON, GLENN W., JR.
  - Twelve receive APPA awards. July-Aug., p. 55.
- ECONOMY
  - Outlook and insights: Automation pays off, by Alex Radin. Jan.-Feb., p. 6.
- ELECTRIC POWER SUPPLY AND DEMAND
  - Outlook and insights: The utility industry should take care to keep pace with new technological developments, by Alex Radin. May-June, p. 2.
  - Meeting tomorrow's energy needs today, by Lori A. Woehrle. May-June, p. 18.
  - Outlook and insights: Efficiency and

  - least-cost energy grows in importance, by Alex Radin. July-Aug., p. 2.
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 22.
- ELECTRIC UTILITY INDUSTRY
  - The other side: Ownership trends of public power, by Vic Reinemer. Mar.-Apr., p. 80.
- ENERGY CONSERVATION
  - The other side: Progress—after 10 years—on appliance efficiency standards, by Vic Reinemer. Sept.-Oct., p. 100.
  - Adapt your financing, by Randy Swisher. Nov.-Dec., p. 18.
- ENERGY EDUCATION
  - Kids love energy theatre, by Cindi Sprouse. May-June, p. 52.
- ENERGY INNOVATION
  - Outlook and insights: The utility industry should take care to keep pace with new technological developments, by Alex Radin. May-June, p. 2.
  - Meeting tomorrow's energy needs today, by Lori A. Woehrle. May-June, p. 18.
  - Energy innovators honored. July-Aug., p. 52.
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 22.
  - Sludge shaves peaks at Sturgeon Bay, by Lori A. Woehrle. Nov.-Dec., p. 28.
  - Public power innovation. Nov.-Dec., p. 30.
  - The other side: Editing technocrats, by Vic Reinemer. Nov.-Dec., p. 104.
- ENGINEERING AND OPERATIONS WORKSHOP (APPA)
  - Outlook and insights: The utility industry should take care to keep pace with new technological developments, by Alex Radin. May-June, p. 2.
  - Meeting tomorrow's energy needs today, by Lori A. Woehrle. May-June, p. 18.
- ENVIRONMENT
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 27.
- EQUAL EMPLOYMENT OPPORTUNITY
  - Women in public power, by Bethany Weidner, Sept.-Oct., p. 12.
  - Woman plant operator honored, by June L. Zamjahn. Sept.-Oct., p. 15.
- EUROPEAN TOUR
  - Smorgasbord of energy solutions, by Larry Bruneel. Mar.-Apr., p. 22.
  - Inside APPA: Tour of Swedish innovations planned, by Lori A. Woehrle. July-Aug., p. 87.
- FEDERAL ENERGY REGULATORY COMMISSION
  - The CWIP chronicle, by Ted Handel. Jan.-Feb., p. 50.
- FLORIDA MUNICIPAL UTILITIES ASSOCIATION
  - Work hard and talk a lot, by E.C. Shreve. July-Aug., p. 49.
- FINANCING
  - Adapt your financing, by Randy Swisher. Nov.-Dec., p. 18.
- FLUIDIZED-BED COMBUSTION
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 52.
- FUEL CELLS
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 59, 67.
- GAINESVILLE, FLA.
  - Kids love energy theatre, by Cindi Sprouse. May-June, p. 52.
- GENERAL ELECTRIC CO.
  - Outlook and insights: Automation pays off, by Alex Radin. Jan.-Feb., p. 6.
- GENERATION
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 22.
- GONZALEZ, ROSE
  - Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
- GRAHL, JAMES L.
  - Outlook and insights: Five lessons learned from Grahl and Holum, by Alex Radin. Mar.-Apr., p. 2.
  - How giant power came to the plains: an interview with Ken Holum and Jim Grahl. Mar.-Apr., p. 30.
- GREEN, PAULA
  - Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
- HISTORY
  - How giant power came to the plains: an interview with Ken Holum and Jim Grahl. Mar.-Apr., p. 27.
  - Shoulder to shoulder, by Patrick Dahl. May-June, p. 36.
  - Stamps portray electricity's history. May-June, p. 58.
- HOLUM, KENNETH
  - Outlook and insights: Five lessons learned from Grahl and Holum, by Alex Radin. Mar.-Apr., p. 2.
  - How giant power came to the plains: an interview with Ken Holum and Jim Grahl. Mar.-Apr., p. 30.
  - Twelve receive APPA awards. July-Aug., p. 55.
- HOYT, GORDON
  - We'll get transmission access—after a fight, says Hoyt (an interview). Sept.-Oct., p. 70.
- HUDSON, MASS.
  - Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
- HYDROELECTRIC POWER
  - Inside APPA: L&R Committee urges rejection of plan to abandon cost-based rates, by Lori A. Woehrle. May-June, p. 79.
  - Friendly advice on key issues: an interview with Rep. Al Swift. July-Aug., p. 33.
  - Outlook and insights: The NEW YORK TIMES disregarded facts on hydro relicensing, by Alex Radin. Sept.-Oct., p. 2.
  - It's a new era for small hydro, by Suzanne Matchett. Nov.-Dec., p. 81.
- INSIDE APPA
  - Campaign launched to protect preference, cost-based rates, by Priscilla Knight. Jan.-Feb., p. 77.
  - Survey shows wide variance in electricity rate structures and prices, by Priscilla Knight. Jan.-Feb., p. 77.
  - Preference campaign under way, by Lori A. Woehrle. Mar.-Apr., p. 77.
  - Blinder to retire; Fry, Allen recognized for 20-year service, by Lori A. Woehrle. Mar.-Apr., p. 77.
  - Three join association staff: Mansueti, Edmondson, Taylor, by Lori A. Woehrle. Mar.-Apr., p. 77.
  - L&R Committee urges rejection of plan to abandon cost-based rates, by Lori A. Woehrle. May-June, p. 79.
  - APPA honors 75 utilities for good safety records, by Lori A. Woehrle. May-June, p. 79.
  - APPA launches communication newsletter, redesigns others, by Lori A. Woehrle. July-Aug., p. 87.
  - Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
  - Tour of Swedish innovations planned, by Lori A. Woehrle. July-Aug., p. 87.
  - Videotape available, by Lori A. Woehrle. July-Aug., p. 87.
  - Preference campaign enters second phase, by Lori A. Woehrle. Sept.-Oct., p. 99.
  - Benefits of local ownership stressed in new video, by Lori A. Woehrle. Sept.-Oct., p. 99.
  - Communications workshop and legal seminar ahead, by Lori A. Woehrle. Sept.-Oct., p. 99.
  - Catalog of audiovisual materials on energy published, by Lori A. Woehrle. Sept.-Oct., p. 99.
- INTEGRATED ENERGY SYSTEMS
  - Sludge shaves peaks at Sturgeon Bay, by Lori A. Woehrle. Nov.-Dec., p. 28.
- INTERMOUNTAIN CONSUMER POWER ASSOCIATION
  - Have access when you need it, by Carolyn S. McNeil. July-Aug., p. 45.
- JAPAN
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 67.
- JOINT ACTION
  - Public power bond issues top $10 billion. Mar.-Apr., p. 17.
  - Transmission barrier breaking, by Lloyd H. Harvego. July-Aug., p. 22.
- KANSAS ASSOCIATION OF MUNICIPAL UTILITIES
  - Local action is the key, by Louis Stroup Jr. July-Aug., p. 45.
- KANSAS CITY (KAN.) BOARD OF PUBLIC UTILITIES
  - Kids listen to line workers, by Clyde E. Blair. Jan.-Feb., p. 14.
- KIMBALL, NEB.
  - Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
- LEGAL SEMINAR (APPA)
  - Inside APPA: Communications workshop and legal seminar ahead, by Lori A. Woehrle. Sept.-Oct., p. 99.
- LEGISLATION
  - More of the same likely in 99th Congress, by Alan Richardson. Jan.-Feb., p. 32.
  - The CWIP chronicle, by Ted. Handel. Jan.-Feb., p. 50.
  - Inside APPA: L&R Committee urges rejection of plan to abandon cost-based rates, by Lori A. Woehrle. May-June, p. 79.
  - The other side: Renew the coalition, by Vic Reinemer. May-June, p. 80.
  - The changing face of competition, by Jeanne Wickline LaBella. July-Aug., p. 28.
  - Friendly advice on key issues: an interview with Rep. Al Swift. July-Aug., p. 33.
  - Outlook and insights: Public power systems must become more intimately involved in the political process, by Alex Radin. Nov.-Dec., p. 2.
- LOAD MANAGEMENT
  - Manage your market, by Karen Anderson. Nov.-Dec., p. 10.
- LOBBYING
  - Effective political action at the state level. July-Aug., p. 45.
  - Have access when you need it, by Carolyn S. McNeil. July-Aug., p. 45.
  - Local action is the key, by Louis Stroup Jr. July-Aug., p. 45.
  - Build coalitions, by William F. Matson. July-Aug., p. 47.
  - Work hard and talk a lot, by E.C. Shreve. July-Aug., p. 49.
  - PACS reflect reality, by R.G. Kirkham. July-Aug., p. 49.
  - Use one-on-one approach, by T.O. Walker. July-Aug., p. 51.
  - Outlook and insights: Public power systems must become more intimately involved in the political process, by Alex Radin. Nov.-Dec., p. 2.
- LONGMONT (COLO.) ELECTRIC UTILITY
  - Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
- MANAGEMENT
  - Improving organizational communication, by Donna Vocate. Mar.-Apr., p. 56.
  - How one utility communicates, by

  Linda Parker. Mar.-Apr., p. 66.
  Public power costs less, by Jeannie Kilmer. May-June, p. 28.
MCLEAN, CAROL
  Woman plant operator honored, by June L. Zamjahn. Sept.-Oct., p. 15.
MCNEIL, CAROLYN
  Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
MEMPHIS, TENN.
  Energy innovators honored. July-Aug., p. 52.
MIKELSON, MELVIN G.
  Twelve receive APPA awards. July-Aug., p. 55.
MINNESOTA MUNICIPAL UTILITIES ASSOCIATION
  PACS reflect reality, by R.G. Kirkham. July-Aug., p. 49.
MOODY, MARLENE
  Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
MOXNESS, KAY
  Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
MUNICIPAL BONDS
  Public power bond issues top $10 billion. Mar.-Apr., p. 17.
MUNICIPAL ENERGY AGENCY OF NEBRASKA
  Energy innovators honored. July-Aug., p. 52.
MUNICIPALLY OWNED UTILITIES
  See PUBLIC POWER
NASHVILLE, TENN.
  Twelve receive APPA awards. July-Aug., p. 55.
NATURAL GAS
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 55.
NEBRASKA MUNICIPAL POWER POOL
  Energy innovators honored. July-Aug., p. 52.
  Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
NEW ORLEANS, LA.
  New Orleans may go municipal, by Lori Woehrle. Mar.-Apr., p. 10.
NEW YORK TIMES
  Outlook and insights: The NEW YORK TIMES disregarded facts on hydro relicensing, by Alex Radin. Sept.-Oct., p. 2.
NUCLEAR POWER
  Should nuclear liability limits be removed? Yes, by Larry Haas. Sept.-Oct., p. 83.
  Should nuclear liability limited be removed? No, by E. C. Pape. Sept.-Oct., p. 82.
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 27.
OFFICE OF TECHNOLOGY ASSESSMENT
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 25.
OMAHA PUBLIC POWER DISTRICT
  Meeting tomorrow's energy needs today, by Lori A. Woehrle. May-June, p. 18.
PALO ALTO, CAL.
  Helicopter speeds transformer replacement, by Edward J. Mrizek. May-June, p. 62.
  Energy innovators honored. July-Aug., p. 52.
  Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
PAYMENTS IN LIEU OF TAXES
  Public power contributes more, by Jeannie Kilmer. May-June, p. 33.
PCBS (polychlorinated biphenyls)
  Helicopter speeds transformer replacement, by Edward J. Mrizek. May-June, p. 62.
PENNSYLVANIA MUNICIPAL ELECTRIC ASSOCIATION
  Build coalitions, by William F. Matson. July-Aug., p. 47.
PHOTOVOLTAICS
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept-Oct., p. 67.
PLATTE RIVER AUTHORITY (COLO.)
  Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
POLITICAL ACTION COMMITTEES
  See LOBBYING
POWER SUPPLY
  How giant power came to the plains: an interview with Ken Holum and Jim Grahl. Mar.-Apr., p. 30.
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 27.
  Manage your market, by Karen Anderson. Nov.-Dec., p. 10.
  Outlook brightens for lead-acid battery, by Thomas York. Nov.-Dec., p. 86.
PREFERENCE
  More of the same likely in 99th Congress, by Alan Richardson. Jan.-Feb., p. 32.
  Inside APPA: Campaign launched to protect preference, cost-based rates, by Priscilla Knight. Jan.-Feb., p. 77.
  Inside APPA: Preference campaign under way, by Lori A. Woehrle. Mar.-Apr., p. 77.
  Friendly advice on key issues: an interview with Rep. Al Swift. July-Aug., p. 33.
  Inside APPA: Preference campaign enters second phase, by Lori A. Woehrle. Sept.-Oct., p. 99.
PRICE-ANDERSON ACT
  Should nuclear liability limits be removed? No, by E.C. Pape. Sept.-Oct., p. 82.
  Should nuclear liability limits be removed? Yes, by Larry Haas. Sept.-Oct., p. 83.
PUBLIC POWER
  Overcoming the obstacles: Columbia River People's Utility District, by Sara Sells and Fergus Pilon. Jan.-Feb., p. 10.
  The other side: Whose authority? A variety of agencies fuel public power, by Vic Reinemer. Jan.-Feb., p. 80.
  New Orleans may go municipal, by Lori A. Woehrle. Mar.-Apr., p. 10.
  The other side: Ownership trends of public power, by Vic Reinemer. Mar.-Apr., p. 80.
  Public power costs less, by Jeannie Kilmer. May-June, p. 32.
  Public power contributes more, by Jeannie Kilmer. May-June, p. 33.
  The other side: Renew the coalition of consumer-owned power systems and their allies, by Vic Reinemer. May-June, p. 80.
  National opinion poll gives public power high marks, by Madalyn Cafruny. July-Aug., p. 18.
  Outlook and insights: Public power systems must become more intimately involved in the political process, by Alex Radin. Nov.-Dec., p. 2.
  Herald the holidays (photos). Nov.-Dec., p. 90.
PUBLIC RELATIONS
  National opinion poll gives public power high marks, by Madalyn Cafruny. July-Aug., p. 18.
PUBLICATIONS (APPA)
  Inside APPA: APPA launches communication newsletter, redesigns others, by Lori A. Woehrle. July-Aug., p. 87.
  Inside APPA: Videotape available, by Lori A. Woehrle. July-Aug., p. 87.
  Inside APPA: Benefits of local ownership stressed in new video, by Lori A. Woehrle. Sept.-Oct., p. 99.
  Inside APPA: Catalog of audiovisual materials on energy published. Sept.-Oct., p. 99.
RAILROADS
  Coalition will fight rail monopoly power, by Randy Swisher. Mar.-Apr., p. 26.
RATES
  Price of electricity in major cities compared. Jan.-Feb., p. 28.
  Inside APPA: Survey shows wide variance in electricity rate structures and prices, by Priscilla Knight. Jan.-Feb., p. 77.
  Public power costs less, by Jeannie Kilmer. May-June, p. 28.
REEDER, JEAN
  Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
RENEWABLE ENERGY SOURCES
  Smorgasbord of energy solutions, by Larry Bruneel. Mar.-Apr., p. 22.
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., pp. 37, 52.
RESEARCH
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 25.
RULE, BARTON D.
  Twelve receive APPA awards. July-Aug., p. 55.
RURAL ELECTRIFICATION
  Shoulder to shoulder, by Patrick Dahl. May-June, p. 36.
SAFETY
  Kids listen to line workers, by Clyde E. Blair. Jan.-Feb., p. 14.
  Safety begins at home, by Commissioner Stuart M. Statler. Jan.-Feb., p. 61.
  Inside APPA: APPA honors 75 utilities for good safety records, by Lori A. Woehrle. May-June, p. 79.
SCHWARTZ, KENNETH P.
  Twelve receive APPA awards. July-Aug., p. 55.
SEATTLE CITY LIGHT (WASH.)
  Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
SNOHOMISH COUNTY (WASH.) PUD
  Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.
SPRINGFIELD, MO.
  Meeting tomorrow's energy needs today, by Lori A. Woehrle. May-June, p. 18.
SIOUX CENTER, IOWA
  Energy innovators honored. July-Aug., p. 52.
STATE LEGISLATION
  Many actions in states affecting public power, by Anne Marie Gibbons. Jan.-Feb., p. 18.
  Effective political action at the state level. July-Aug., p. 45.
  Have access when you need it, by Carolyn S. McNeil. July-Aug., p. 45.
  Local action is the key, by Louis Stroup Jr. July-Aug., p. 45.
  Build coalitions, by William F. Matson. July-Aug., p. 47.
  Work hard and talk a lot, by E.C. Shreve. July-Aug., p. 49.
  PACS reflect reality, by R.G. Kirkham. July-Aug., p. 49.
  Use one-on-one approach, by T.O. Walker. July-Aug., p. 51.
STORAGE SYSTEMS
  The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 65.
  Outlook brightens for lead-acid battery, by Thomas York. Nov.-Dec., p. 86.
STRATEGIC PLANNING FOR UTILITIES
  Manage your market, by Karen Anderson. Nov.-Dec., p. 10.
STURGEON BAY, WIS.
  Sludge shaves peaks at Sturgeon Bay, by Lori A. Woehrle. Nov.-Dec., p. 28.
SURVEYS
  Inside APPA: Survey shows wide variance in electricity rate structures and prices, by Priscilla

Knight. Jan.-Feb., p. 77.
  - National opinion poll gives public power high marks, by Madalyn Cafruny. July-Aug., p. 18.
  - Inside APPA: Results available from survey of public power cable use, by Lori A. Woehrle. Nov.-Dec., p. 103.

SWEDEN
  - Smorgasbord of energy solutions, by Larry Bruneel. Mar.-Apr., p. 22.
  - Inside APPA: Tour of Swedish innovations planned, by Lori A. Woehrle. July-Aug., p. 87.

SWIFT, REP. AL
  - Friendly advice on key issues: an interview with Rep. Al Swift. July-Aug., p. 33.
  - Twelve receive APPA awards. July-Aug., p. 55.

TAXES
  - Public power contributes more, by Jeannie Kilmer. May-June, p. 33.
  - Inside APPA: L&R Committee urges rejection of plan to abandon cost-based rates, by Lori A. Woehrle. May-June, p. 79.
  - Outlook and insights: Efficiency and least-cost energy grows in importance, by Alex Radin. July-Aug., p. 2.

TENNESSEE MUNICIPAL ELECTRIC POWER ASSOCIATION
  - Use one-on-one approach, by T.O. Walker. July-Aug., p. 51.

TIDAL POWER
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 65.

TRAER (IOWA) MUNICIPAL UTILITIES
  - Inside APPA: Association awards eight grants, five scholarships, by Lori A. Woehrle. July-Aug., p. 87.

TRAINING
  - Utility training on a shoestring, by George W. Laing. July-Aug., p. 75.

TRANSFORMERS
  - Helicopter speeds transformer replacement, by Edward J. Mrizek. May-June, p. 62.

TRANSMISSION
  - Outlook and insights: Efficiency and least-cost energy grows in importance, by Alex Radin. July-Aug., p. 2.
  - Transmission barrier breaking, by Lloyd H. Harvego. July-Aug., p. 22.
  - Transmission options widen, by Kirk Howard Betts. July-Aug., p. 24.
  - We'll get transmission access—after a fight, says Hoyt (an interview). Sept.-Oct., p. 70.

TRANSMISSION AGENCY OF NORTH CAROLINA
  - Transmission barrier breaking, by Lloyd H. Harvego. July-Aug., p. 22.

TRAVERSE CITY, MICH.
  - Michigan expands wood-chip use. July-Aug., p. 13.

URD (UNDERGROUND)
  - Prolong underground cable use, by Eric Winslow. July-Aug., p. 66.

UTILITY EDUCATION COURSES (APPA)
  - Utility education courses generate cash savings, by Toni Clark. Sept.-Oct., p. 88.

WACKER, HERMAN W. "BUD"
  - Twelve receive APPA awards. July-Aug., p. 55.

WASHINGTON PUBLIC POWER SUPPLY SYSTEM
  - The other side: Authors of new books are looking at consumer-owned electric systems, by Vic Reinemer. July-Aug., p. 88.

WASTE HEAT
  - The next generation of generation, by Michael K. Bergman, Larry Mansueti, Larry Bruneel, and Larry Hobart. Sept.-Oct., p. 47.

WESTERN FUELS ASSOCIATION
  - Outlook and insights: Five lessons learned from Grahl and Holum, by Alex Radin. Mar.-Apr., p. 2.
  - How giant power came to the plains: an interview with Ken Holum and Jim Grahl. Mar.-Apr., p. 30.

WOMEN
  - Women in public power, by Bethany Weidner. Sept.-Oct., p. 12.
  - Woman plant operator honored, by June L. Zamjahn. Sept.-Oct., p. 15.

ZINGMARK, LOREN A.
  - Twelve receive APPA awards. July-Aug., p. 55.

BOOK REVIEWS

THE ACID RAIN SOURCEBOOK, edited by Thomas C. Elliott and Robert G. Schwieger. May-June, p. 78.

A CITIZEN'S GUIDE TO ELECTRIC UTILITIES, by the League of Women Voters Education Fund. Sept.-Oct., p. 97.

DYNAMOS AND VIRGINS, by David Roe. Sept.-Oct., p. 97.

THE ELECTRIC VALLEY, directed by Ross Spears, James Agee Film Project. Nov.-Dec., p. 101. (Film).

ELECTRICAL ENGINEERING FOR PROFESSIONALS' EXAMINATIONS, by John D. Constance. Jan.-Feb., p. 75.

ENERGY DEVELOPMENT: NEW FORMS, RENEWABLES, CONSERVATION, edited by Fred A. Curtis. Jan.-Feb., p. 75.

ENERGY RESOURCES AND ENERGY CORPORATIONS, by Duane Chapman. July-Aug., p. 83.

ILLUSIONS OF POWER, by D. Victor Anderson, July-Aug., p. 88.

MCGRAW-HILL CONCISE ENCYCLOPEDIA OF SCIENCE AND TECHNOLOGY, edited by Sybil P. Parker. Mar.-Apr., p. 75.

THE MOST ENERGY-EFFICIENT APPLIANCES, Summer 1985, by the American Council for an Energy Efficient Environment. Sept.-Oct., p. 97.

THE NEXT GREATEST THING, edited by Richard A. Pence, text by Patrick Dahl. Mar.-Apr., p. 76.

1984 RESOURCE RECOVERY YEARBOOK: DIRECTORY AND GUIDE, by Governmental Advisory Associates, Eileen Berenyi, project director, Robert Gould, editor. Jan.-Feb., p. 76.

THE POWER MAKERS, by Richard Munson. July-Aug., p. 83.

PRINCIPLES FOR ELECTRIC POWER POLICY, by Technology Future, Inc., and Scientific Foresight, Inc. May-June, p. 78.

SEARCH FOR POWER, by Milton A. Chase. July-Aug., p. 83.

TRADING IN POWER: THE POTENTIAL FOR U.S.-CANADIAN ELECTRICITY EXCHANGE, by Diane DeVaul, Tom Keating and Robert J. Sugarman. Jan.-Feb., p. 76. ✷

This advertisement appears as a matter of record only

$45,915,000

Utah Municipal Power Agency

Electric System Revenue Bonds,
1985 Series A

The undersigned acted as financial advisor
to Utah Municipal Power Agency in this transaction

MANUFACTURERS HANOVER TRUST COMPANY

December 1985

MARCH-APRIL 1986

publicpower

A2625-1 3/86

I
22-2-AD- 4
CONGRESSIONAL INFO. SERVICE
SRI
4520 EAST-WEST HIGHWAY
BETHESDA
MARYLAND 20814

*Nega*watts — Rx for Megagoofs p. 10
Bond Issues Doubled in 1985 p. 18
Rate Concepts (Course 101) p. 41
What Happened to Insurance? p. 54

public power

MARCH-APRIL 1986
VOLUME 44 NUMBER 2

2 **OUTLOOK AND INSIGHTS by Alex Radin**
"The lessons I have learned (in 38 years at the APPA helm) could be applicable to a number of APPA member utilities," and to executives of other organizations.

10 **NEGAWATTS—Rx FOR MEGAGOOFS by Amory B. Lovins**
"Saving electricity is now so cheap that saved operating costs can rescue utilities from the cost of troubled construction projects."

18 **PUBLIC POWER BOND ISSUES TOTALED $23.2 BILLION IN 1985**
"This was more than double the previous record amount, $10.2 billion, in 1984."

24 **PHOTO CONTEST: HERE ARE THE WINNERS**

31 **POWERPAC BUILDS SUPPORT, AWARENESS by Clark R. Layton**
APPA's political action committee enhances political awareness and skills.

37 **FUNDRAISERS OPEN DOORS by Alex Radin**
"Political receptions are work, not play."

41 **RATE CONCEPTS FOR NEW BOARD MEMBERS by Herb Blinder**
"An essential first step in examining the validity of rate policies is agreement about the basic purposes underlying a system's rates."

48 **CUSTOMER COMMENTS BUILD PR PROGRAM by A. J. Muntz**
Making it easy to complain pays dividends in loyalty for Snohomish PUD.

54 **WHAT HAPPENED TO INSURANCE? by Jay Muzychenko**
"The problems are part of a cyclical pattern that has taken a particularly severe turn. Public power systems and others can reduce the effects of the cycle."

62 **IOU TAX PREFERENCE CONTINUES by Jeannie Shenk**
"Private utilities' profits grow while their tax rates stay low."

67 **INNOVATION UPDATE by Larry Brunsel**
A new PUBLIC POWER feature reports on technical applications.

72 APPA PAPERS **73 MEETINGS** **74 AD INDEX**

75 **INSIDE APPA by Lori A. Woehrle**
APPA opposes Reagan plan to sell power marketing administrations; six grants, scholarship awarded.

76 **THE OTHER SIDE by Vic Reinemer**
Prospect of higher rates has led to current consideration of public power in more than 20 communities. But do not claim converts until their meters run.

FRONT COVER: Journey lineman Patrick A. Roark of Y-W Electric Association, Akron, Colo., submitted this prize-winning photograph to PUBLIC POWER's 1985 Photo Contest. The photo, which took first place among systems with fewer than 25,000 meters, shows Mesa Hot Line School participants in Grand Junction, Colo., changing insulators on a three-phase, stacked running corner. See other winners beginning on page 24.

Published bimonthly, PUBLIC POWER is a member of Business Publication Audit of Circulation, Inc. (BPA) and the Society of National Association Publications (SNAP). Second-class circulation postage paid at Washington, D.C. Subscription Rate: $35 per year; single copy $5; Jan.-Feb. Directory $40 ($20 to members). (USPS-449-420)

Editor and publisher, VIC REINEMER
Managing editor, LORI A. WOEHRLE
Associate editor, JEANNE WICKLINE LABELLA
Engineering editor, DAN LEWIS
Conservation editor, KAREN ANDERSON
Research editor, MICHAEL K. BERGMAN
Economics editor, JOHN KELLY
Innovations editor, JACQUIE COCHRAN
Consulting designer, LECKIE/LEHMANN

Contributing editors:
RALPH ALLEN
MELISSA ANNE BROWN
LARRY BRUNSEL
MADALYN CAFRUNY
TONI CLARK
PAUL FRY
CINDY GASKILL
ANNE MARIE GIBBONS
RUTH GONZE
TED HANDEL
LAWRENCE HOBART
JILL KUNKA
LAWRENCE MANSUETI
NANCY MOONEY
DEBBIE NUTTALL
EILEEN PEERLESS
ALEX RADIN
ALAN H. RICHARDSON
GORDON ROBERTS
JEANNIE SHENK
DEBORAH SLIZ
RANDY SWISHER
JEFF TARBERT

Advertising manager, W. E. (Trez) Lée; *Assistant advertising manager,* Peggy Douglas; *Circulation manager,* Margaret I. Winfough; *Classified advertising manager,* Julie Anstine

Editorial and advertising offices: 2301 M St. N.W., Washington, D.C. 20037. 202/775-8300

PUBLIC POWER is the official publication of the American Public Power Association. Opinions expressed in signed articles are not necessarily APPA policies. For permission to reprint articles write or call the publisher.

Public Power Bond Issues Totaled $23.2 Billion in '85

LOCAL PUBLICLY OWNED ELECTRIC utilities issued a record $23.2 billion worth of electric revenue bonds in 1985. This was more than double the previous record amount, $10.2 billion, in 1984, which had been a 3 percent increase over the $9.9 billion sold in 1983.

All tax-exempt revenue bond sales, according to preliminary calculations, increased by more than half, as compared with 1984, to a tentative total of $156.5 billion in 1985.

Public power revenue bonds amounted to 21 percent of all tax-exempt bonds sold in 1985, compared with 10.9 percent in 1984 and 12.2 percent in 1983, according to the annual Shearson Lehman Bros. compilation of tax-exempt bonds. Data came from THE BOND BUYER.

Twenty joint-action agencies accounted for 57.8 percent—$13.7 billion—of the $23.2 billion public power bond total, as compared with 57.9 percent in 1984.

The public power agency which issued the largest amount of bonds last year, $4.2 billion, was Intermountain Power Agency in Utah. Five other joint-action agencies issued more than $1 billion in bonds last year. They are North Carolina Eastern Municipal Power Agency, Northern California Power Agency, North Carolina Municipal Power Agency #1, Georgia Municipal Electric Authority and Piedmont Municipal Power Agency in South Carolina.

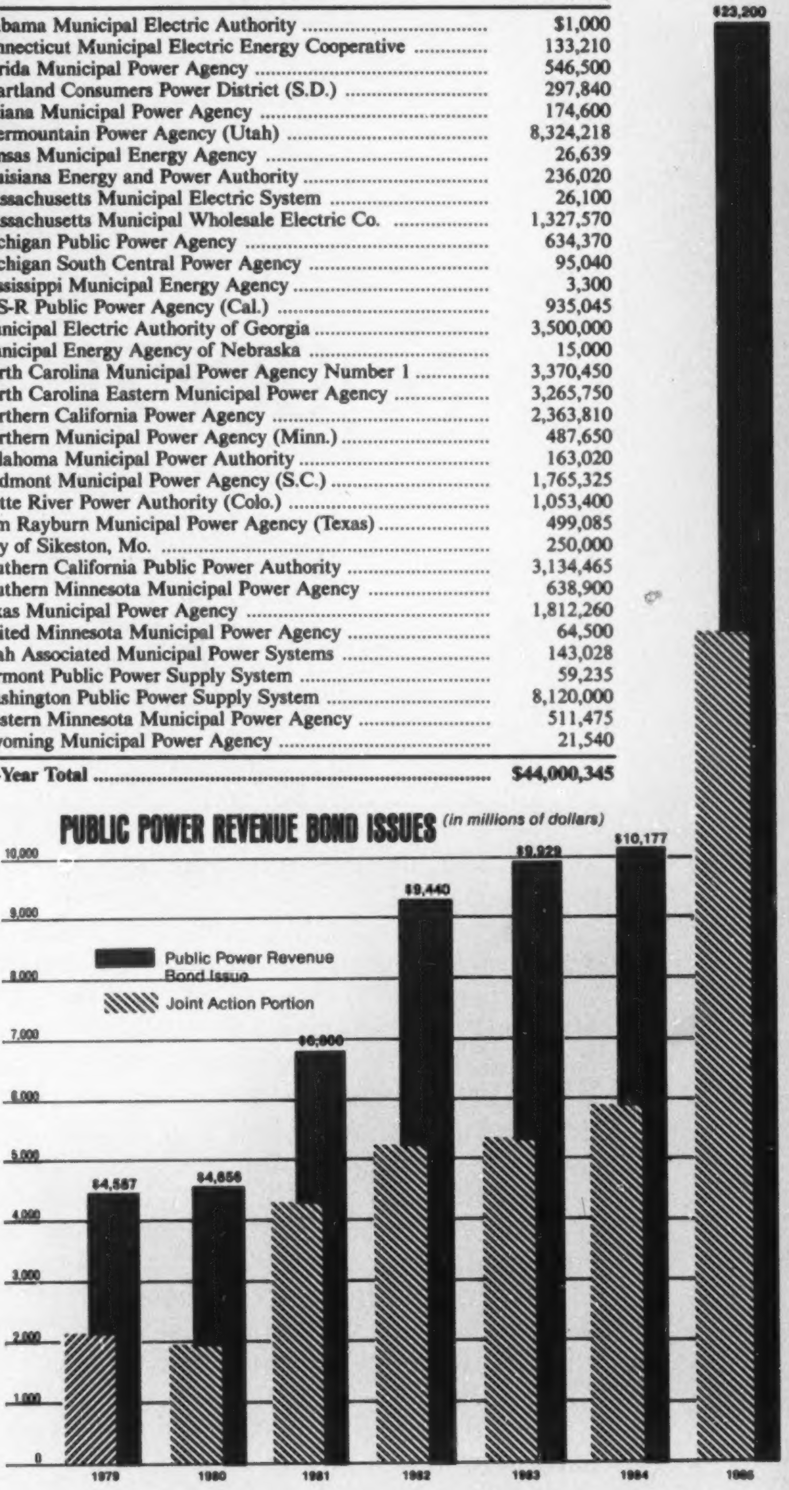
The 11-year total of electric bonds issued by 34 joint-action agencies is $44 billion, an increase of 47 percent in one year over the $30.2 billion they issued during the previous decade.

Public power revenue bond sales by quarter, in millions of dollars, were:

Quarter	1983	1984	1985
lst	$3,070	$3,778	$3,281
2nd	3.561	1,638	6,121
3rd	1,570	2,188	3,343
4th	1,747	2,576	10,460

Total Bonds Issued by Joint-Action Public Power Systems

Issuer 1975-1985	Total (000)
Alabama Municipal Electric Authority	$1,000
Connecticut Municipal Electric Energy Cooperative	133,210
Florida Municipal Power Agency	546,500
Heartland Consumers Power District (S.D.)	297,840
Indiana Municipal Power Agency	174,600
Intermountain Power Agency (Utah)	8,324,218
Kansas Municipal Energy Agency	26,639
Louisiana Energy and Power Authority	236,020
Massachusetts Municipal Electric System	26,100
Massachusetts Municipal Wholesale Electric Co.	1,327,570
Michigan Public Power Agency	634,370
Michigan South Central Power Agency	95,040
Mississippi Municipal Energy Agency	3,300
M-S-R Public Power Agency (Cal.)	935,045
Municipal Electric Authority of Georgia	3,500,000
Municipal Energy Agency of Nebraska	15,000
North Carolina Municipal Power Agency Number 1	3,370,450
North Carolina Eastern Municipal Power Agency	3,265,750
Northern California Power Agency	2,363,810
Northern Municipal Power Agency (Minn.)	487,650
Oklahoma Municipal Power Authority	163,020
Piedmont Municipal Power Agency (S.C.)	1,765,325
Platte River Power Authority (Colo.)	1,053,400
Sam Rayburn Municipal Power Agency (Texas)	499,085
City of Sikeston, Mo.	250,000
Southern California Public Power Authority	3,134,465
Southern Minnesota Municipal Power Agency	638,900
Texas Municipal Power Agency	1,812,260
United Minnesota Municipal Power Agency	64,500
Utah Associated Municipal Power Systems	143,028
Vermont Public Power Supply System	59,235
Washington Public Power Supply System	8,120,000
Western Minnesota Municipal Power Agency	511,475
Wyoming Municipal Power Agency	21,540
11-Year Total	**$44,000,345**



One agency, the Oklahoma Municipal Power Authority, issued bonds for the first time last year.

Of the 276 public power issues last year, 233, totalling $21.9 billion, were negotiated, and 43 issues, totalling $1.3 billion, were competitive, according to Securities Data Co. ✸

IOU Tax Preference Continues

by JEANNIE SHENK
contributing editor, PUBLIC POWER,
and APPA *manager of statistics and data processing*

FEDERAL INCOME TAXES charged to investor-owned utilities (IOUs) in 1984 amounted to 10.8 percent of their before-tax income and only 2.3 percent of their total operating revenues. The 111 largest IOUs had before-tax income of $29.1 billion, $3.2 billion of which were billed for taxes by the federal government.

The three largest investor-owned utilities (IOUs), each with net income before taxes of well over $1 billion, each paid less than the 10.8 percent average effective tax rate. The largest, Pacific Gas and Electric Co. (PG&E), had a negative effective tax rate of -1.9 percent. (A negative charge means the corporation incurred no federal tax liability on its 1984 income and accrued a portion or all of the negative amounts for possible use in future years.)

Southern California Edison Co., the second largest, had a tax rate of 10.5 percent. The third largest, Commonwealth Edison Co., in Illinois, had a tax rate of 2.1 percent.

The IOUs whose taxes are analyzed here each had total operating revenues of more than $250 million. All of the information comes from reports they filed with the Federal Energy Regulatory Commission (FERC) for 1984, the latest year available.

Twelve of the private utilities reported negative tax charges. Indiana and Michigan Electric Co. had the largest negative tax charge, -$55.5 million, even though its before-tax income was $201.1 million. PG&E had a negative tax charge of -$28.9 million on its before-tax income of $1.5 billion.

Fifty-four of the utilities had effective tax rates below 10 percent, sixteen had rates between 10 and 20 percent, and 41 utilities had rates over 20 percent. The nominal, or statutory, corporate tax rate is 46 percent of before-tax income. Two companies had an effective tax rate above this—indicating some payment of back taxes was included in their 1984 returns. Such occurrences are rare aberrations to the low effective rates paid by virtually all private utilities.

Two major items which contribute to low IOU tax rates are investment tax credits (ITCs) and tax deferrals. In 1984 the 111 utilities in this study took $2.1 billion in investment tax credit deductions, and $4.6 billion in net tax deferrals.

Investment tax credits are direct, permanent reductions in a utility's calculated tax liability for a given year. Unused credits one year are frequently either used to reduce tax liabilities other years or, in effect, sold to other, nonutility corporations.

Commonwealth Edison Co. took advantage of $162 million in ITCs in 1984, along with $133 million in deferred taxes, to help reduce its tax rate to 2.1 percent. Alabama Power Co. coupled $156 million in ITCs with $85 million in deferred taxes, thereby avoiding taxes on before-tax income of $494 million. Instead it had a negative tax rate of -9.0 percent.

Of the $4.6 billion in deferred taxes accumulated by the 111 utilities, PG&E deferred the most—$416 million—followed by Southern California Edison with $358 million and Public Service Co. of Indiana with $226 million.

'The typical private utility received more in tax breaks than it was billed for federal taxes.'

The negative deferred tax amounts for some utilities shown in the accompanying table are atypical instances where a utility's tax deferrals from previous years more than offset new deferrals. The typical private utility received more in tax breaks than it was billed for federal taxes. The IOUs reported a total of $6.7 billion in ITC and deferred tax breaks, but only $3.2 billion in federal tax charges on 1984 income.

Private utilities pay significantly less federal taxes than most other corporations. Citizens for Tax Justice, which studied reports filed with the Securities and Exchange Commission by 275 different types of major corporations for the years 1981 to 1984, found that they paid an average effective tax rate of 15 percent. Thirty-four of the corporations were private electric and gas utilities.

They had an effective tax rate of 7.0 percent—less than half the average for all the corporations. Twenty-two of the IOUs incurred less than five percent and six of these received tax rebates.

The Environmental Action Foundation recently reported on tax overcharges by private power companies in 1984. (A tax overcharge is the difference between what a power company collects in taxes from its customers and what it actually pays to the federal government in taxes.) From reports filed with the FERC the foundation found that the 125 largest IOUs collected $10.6 billion in electric taxes from customers in 1984 but turned over to the federal government only $3.2 billion, resulting in a tax overcharge of $7.4 billion.

Pacific Gas and Electric has the highest tax overcharge, $525.5 million. In terms of tax per residential customer, Arizona Public Service Co. charged the most, $202 per customer.

Overcharging for taxes by private utilities is legal under normalized accounting rules, which, in effect, allow utilities to postpone payment of deferred taxes indefinitely.

Private utilities' profits grow while tax rates stay low. Growth in IOU profits continued to outpace those of other corporations last year. For the first nine months of 1985 IOU profits were 5.6 percent higher than in 1984, while profits of all corporations declined by 5.3 percent.

State	*Company*	*Total Utility Operating Revenues (000)*	*Utility Income Before Federal Income Taxes* (000)*	*Deferred Income Taxes (net) (000)*	*Federal Investment Tax Credits (net) (000)*	*Federal Income Taxes Charged to Utility (000)*	*Federal Income Taxes Paid by Utility (000)*	*Income Taxes Charged as % of Utility Income Before Income Taxes*
		(1)	(2)	(3)	(4)	(5)	(6)	(7)
Ala.	Alabama Power	2,111,236	494,384	85,427	156,297	−44,356	−11,319	−9.0
Ariz.	Arizona Public Service	994,967	408,140	42,956	59,592	14,578	12,042	3.6
	Tucson Electric Power	398,737	141,646	−9,135	8,240	16,956	27,118	12.0
Ark.	Arkansas Power & Light	1,247,597	265,063	4,034	30,624	73,200	9,704	27.6
Cal.	Pacific Gas & Electric	7,479,718	1,485,455	415,731	88,630	−28,879	59,354	−1.9
	San Diego Gas & Electric	1,620,788	321,032	27,026	71,482	13,162	14,700	4.1
	Southern California Edison	4,900,848	1,342,636	357,615	55,323	140,510	125,385	10.5
Colo.	Public Service of Colorado	1,665,877	272,120	24,295	12,237	81,824	79,045	30.1
Conn.	Connecticut Light & Power	1,779,238	426,882	−1,073	94,500	16,342	12,861	3.8
	United Illuminating	509,470	130,919	52,869	−8,310	−2,047	1,507	−1.6
Del.	Delmarva Power & Light	701,904	171,089	30,532	2,951	38,817	32,484	22.7
D.C.	Potomac Electric Power	1,197,534	304,202	46,806	6,126	75,062	42,027	24.7
Fla.	Florida Power	1,292,003	238,667	2,420	11,033	74,586	73,019	31.3
	Florida Power & Light	3,939,929	628,416	152,648	67,697	38,335	36,987	6.1
	Gulf Power	470,100	84,342	3,878	8,977	21,033	12,229	24.9
	Tampa Electric	693,526	169,155	21,668	14,301	28,843	15,365	17.1
Ga.	Georgia Power	3,137,174	772,233	145,265	49,819	81,699	40,000	10.6
Hawaii	Hawaiian Electric	528,705	70,759	7,802	332	20,893	−22,127	29.5
Idaho	Idaho Power	427,847	161,613	14,584	7,809	33,891	36,855	21.0
Ill.	Central Illinois Light	548,106	86,963	20,434	−1,757	21,050	20,846	24.2
	Central Illinois Public Service	721,540	151,739	13,548	267	32,863	49,142	21.7
	Commonwealth Edison	4,929,671	1,227,026	132,958	161,800	25,370	12,051	2.1
	Illinois Power	1,280,537	358,837	23,850	29,974	56,014	36,534	15.6
Ind.	Indiana & Michigan Electric	963,056	201,099	54,293	57,965	−55,458	−59,638	−27.6
	Indianapolis Power & Light	459,330	130,102	18,069	7,175	20,733	20,150	15.9
	Northern Indiana Public Service	2,001,072	252,003	23,050	66,384	13,100	12,100	5.2
	Public Service Co. of Indiana	910,276	171,063	226,476	−151,728	22,668	36,457	13.3
	Southern Indiana Gas & Electric	281,967	54,629	5,432	3,283	11,526	12,221	21.1
Iowa	Interstate Power	318,415	48,274	1,869	703	15,558	15,465	32.2
	Iowa Electric Light & Power	468,228	48,636	3,372	6,428	1,548	5,002	3.2
	Iowa Illinois Gas & Electric	569,036	107,163	19,551	1,536	19,526	21,000	18.2
	Iowa Power & Light	323,442	93,352	11,599	113	27,799	28,982	29.8
	Iowa Public Service	391,039	63,159	8,456	−1,144	19,494	15,273	30.9
Kan.	Kansas Gas & Electric	410,753	164,875	40,435	2,082	−27	950	0.0
	Kansas Power & Light	683,821	153,327	20,383	2,228	36,680	28,838	23.9
Ky.	Kentucky Utilities	519,902	127,078	20,535	−1,044	34,567	37,150	27.2
	Louisville Gas & Electric	676,266	148,777	18,600	4,969	39,127	35,273	26.3
La.	Central Louisiana Electric Power	330,793	68,890	4,635	9,583	7,671	10,253	11.1
	Gulf States Utilities	1,613,474	339,480	77,219	−8,911	11,392	3,000	3.4
	Louisiana Power & Light	1,245,659	259,619	−5,316	34,976	4,174	8.3	
	New Orleans Public Service	448,918	36,287	−5,354	910	22,347	20,569	61.6
Maine	Central Maine Power	515,407	70,777	26,659	−6,056	208	406	0.3
Md.	Baltimore Gas & Electric	1,761,474	392,294	38,172	12,856	97,152	104,947	24.8
	Potomac Edison	488,392	97,926	7,208	1,452	32,300	28,591	33.0
Mass.	Boston Edison	1,316,668	164,966	44,139	21,288	5,709	17,215	3.5
	Massachusetts Electric	981,957	79,429	17,211	1,380	19,653	23,315	24.7
	New England Power	1,049,583	205,340	13,015	10,138	62,384	58,287	30.4
	Western Massachusetts Electric	274,296	64,942	2,953	11,870	−201	−170	−0.3
Mich.	Consumers Power	3,171,741	282,586	38,241	14,570	8,716	−900	3.1
	Detroit Edison	2,496,055	533,483	88,393	38,372	4,781	6,400	0.9

State	Company	Total Utility Operating Revenues (000) (1)	Utility Income Before Federal Income Taxes* (000) (2)	Deferred Income Taxes (net) (000) (3)	Federal Investment Tax Credits (net) (000) (4)	Federal Income Taxes Charged to Utility (000) (5)	Federal Income Taxes Paid by Utility (000) (6)	Income Taxes Charged as % of Utility Income Before Income Taxes (7)
Minn.	Minnesota Power & Light	389,261	85,874	21,804	27	2,876	2,726	3.3
	Northern States Power	1,628,822	326,846	100,992	20,779	−1,602	17,540	−0.5
Miss.	Mississippi Power	434,822	63,094	7,126	4,927	13,845	8,509	21.9
	Mississippi Power & Light	531,927	83,667	9,156	2,553	20,659	21,096	24.7
Mo.	Kansas City Power & Light	583,414	221,449	38,699	21,091	6,537	3,466	3.0
	Union Electric	1,412,414	467,404	198,688	−46,391	−3,731	3,214	−0.8
Mont.	Montana Power	358,873	50,803	−2,787	997	93	1,006	0.2
Nev.	Nevada Power	318,101	72,731	16,230	2,747	10,723	18,056	14.7
	Sierra Pacific Power	357,184	74,217	11,230	14,889	4,359	1,435	5.9
N.H.	Public Service of New Hampshire	525,585	163,540	5,276	−499	2,160	0	1.3
N.J.	Atlantic City Electric	549,531	105,151	22,892	3,469	15,513	11,649	14.8
	Jersey Central Power & Light	1,351,303	176,171	77,709	22,067	−22,497	−30,139	−12.8
	Public Service Electric & Gas	4,196,124	749,637	140,377	96,543	21,630	22,983	2.9
N.M.	Public Service Co. of New Mexico	445,328	174,404	14,089	17,355	6,835	8,557	3.9
N.Y.	Central Hudson Gas & Electric	523,189	80,380	2,502	7,604	19,137	17,700	23.8
	Consolidated Edison	5,741,945	1,051,081	84,130	26,480	320,500	206,928	30.5
	Long Island Lighting	2,097,535	543,919	−883	100,814	16,200	0	3.0
	New York State Electric & Gas	1,129,066	256,270	19,650	24,362	882	3,231	0.3
	Orange & Rockland Utilities	499,486	65,242	10,800	1,716	14,007	25,299	21.5
	Rochester Gas & Electric	783,856	148,352	−658	33,563	11,829	8,600	8.0
N.C.	Carolina Power & Light	1,854,250	514,996	146,665	48,385	17,525	2,223	3.4
	Duke Power	2,716,907	926,454	69,344	18,806	319,387	161,220	34.5
N.D.	Montana Dakota Utilities	357,242	37,633	4,927	7,139	−5,710	−3,610	−15.2
Ohio	Cincinnati Gas & Electric	1,310,978	198,130	111,925	−14,883	−27,784	25,666	−14.0
	Cleveland Electric Illuminating	1,215,353	388,040	27,010	46,355	23,043	24,451	5.9
	Columbus & Southern Ohio Electric	732,674	108,060	13,595	15,995	5,403	−1,490	5.0
	Dayton Power & Light	1,013,593	168,225	73,225	−7,286	−1,328	655	−0.8
	Ohio Edison	1,435,829	406,360	26,911	33,761	5,164	6,680	1.3
	Ohio Power	1,520,010	323,790	18,986	14,784	106,107	116,595	32.8
	Ohio Valley Electric	289,854	2,485	3,378	−308	−2,220	1	−89.3
	Toledo Edison	561,306	185,603	14,768	13,706	3,603	2,493	1.9
Okla.	Oklahoma Gas & Electric	1,028,537	198,436	35,097	5,012	40,424	42,890	20.4
	Public Service of Oklahoma	724,332	104,929	7,693	6,178	27,220	52,645	25.9
Ore.	Pacific Power & Light	1,009,812	332,962	11,802	52,421	14,299	29,794	4.3
	Portland General Electric	722,068	202,088	13,452	16,398	12,344	7,697	6.1
Pa.	Duquesne Light	861,775	231,393	21,469	21,750	19,944	25,791	8.6
	Metropolitan Edison	644,519	59,968	3,131	11,936	13,738	9,595	22.9
	Pennsylvania Electric	745,718	141,934	31,145	5,985	27,962	36,152	19.7
	Pennsylvania Power & Light	1,562,947	442,566	126,660	−3,408	421	0	0.1
	Philadelphia Electric	2,962,707	618,919	68,773	49,809	5,619	7,651	0.9
	UGI	427,726	47,726	−5,906	981	23,573	2,544	49.4
	West Penn Power	786,270	161,512	16,225	3,123	38,373	36,460	23.8
R.I.	Narragansett Electric	315,768	21,669	2,700	1,094	5,649	7,947	26.1
S.C.	South Carolina Electric & Gas	1,128,414	251,841	92,802	9,924	5,767	11,600	2.3
Texas	Central Power & Light	972,184	205,168	11,006	24,258	32,169	−38,006	15.7
	El Paso Electric	329,015	152,999	23,945	8,350	11,715	7,727	7.7
	Houston Lighting & Power	3,674,556	611,971	83,499	93,173	55,456	27,997	9.1
	Southwestern Electric Power	754,509	184,112	35,902	14,099	15,078	17,175	8.2
	Southwestern Public Service	816,636	178,836	19,357	7,202	36,644	38,912	20.5
	Texas New Mexico Power	398,067	25,603	5,093	3,055	2,747	−385	10.7
	Texas Utilities Electric	3,925,739	879,561	80,607	60,543	147,646	151,941	16.8
	West Texas Utilities	312,078	49,257	5,351	10,484	3,323	8,401	6.7
Utah	Utah Power & Light	968,269	215,117	40,732	7,090	45,919	39,282	21.3
Va.	Virginia Power	2,604,529	541,015	50,708	16,355	131,294	84,302	24.3
Wash.	Puget Sound Power & Light	657,235	107,281	35,226	19,646	4,849	3,500	4.5
	Washington Water Power Co.	413,310	83,895	11,108	5,500	747	156	0.9
W. Va.	Appalachian Power	1,350,438	240,435	40,063	8,208	28,760	23,788	12.0
	Monongahela Power	477,972	94,929	1,880	2,131	31,650	32,013	33.3
Wis.	Wisconsin Electric Power	1,103,410	276,648	−6,670	7,573	93,669	106,550	33.9
	Wisconsin Power & Light	570,701	91,678	13,283	7,686	7,237	23,563	7.9
	Wisconsin Public Service	644,191	100,060	0	2,966	33,339	32,457	33.3
	TOTAL	$137,007,265	$29,147,388	$4,599,322	$2,080,281	$3,150,986	$2,717,998	*

A 2625-1

MAY-JUNE 1986

publicpower

The Radin Years

WORLD POWER CONFERENCE
Tokyo Sectional Meeting

M A
ной части р Ангары

1
CONGRESSIONAL INFO. SERVICE 22-2-AD- 4
SRI
4520 EAST-WEST HIGHWAY
BETHESDA
MARYLAND 20814

FRONT COVER:
The montage of Alex Radin, who will retire as APPA executive director June 30, provides a glimpse of his early years and his decades of public power leadership. For his own remembrances, and more pictures, turn to page 32.

To Toronto for Annual Conference, *page 28*

For Sale? *page 10*

May-June 1986
Volume 44, Number 3

publicpower

COLUMNS

6 Outlook and Insights
by *Alex Radin*
'The heart and soul of public power should be public service.'

92 The Other Side
by *Vic Reinemer*
What does a child with a kite have to do with public power?

GOVERNMENT

10 The Perils of Divesting The Federal Power System
by *Sen. Slade Gorton*
"Divesting the federal power marketing administrations is inappropriate and potentially disastrous."

16 A Public Policy of Broken Promises
by *Robert W. Feragen*
"Rural people hope there are congressional leaders who still believe tax equity is possible without dislodging federal responsibility for resource development."

Automating Utilities, *page 70*

MONEY

20 Public Power Costs Less
by *Jeannie Shenk*
"Residential revenue for public power systems averaged 29.7 percent per kWh below private utilities' revenue per kWh in 1984."

25 Public Power Contributes More
by *Jeannie Shenk*
"Publicly owned systems contributed 7.8 percent of their gross electric operating revenue to state and local governments in 1984. Private utilities paid 6.3 percent."

APPA

28 Toronto Will Host Annual Conference
Participants will hone their utility management skills, and enjoy Canadian culture and cuisine.

77 1986 Photo Contest Begins

91 Inside APPA
by *Lori A. Woehrle*
APPA patents invention; safety award winners announced.

Center Section
APPA annual report

HISTORY

32 Memories . . . of Decades at APPA's Helm
by *Alex Radin*
Memorable battles and colorful characters made lasting impressions on "Mr. Public Power."

TECHNOLOGY

64 Is Your Power Good Enough?
by *Larry Bruneel*
Sophisticated electronic equipment requires more reliable electric service. Clean up your act—and help customers fix their problems.

70 Managing Utility Resources Through Automation
by *Lori A. Woehrle*
E&O Workshop speakers told what automation is doing *for* and *to* their utilities.

78 Innovation Update
by *Larry Bruneel*
Nashville, Tenn., Snohomish County (Wash.) PUD and Western Area Power Administration apply new technologies.

DEPARTMENTS

86 APPA Papers
86 Ad Index
88 Books
89 Letters
90 Meetings

PUBLIC POWER COSTS LESS

Residential Rates Averaged 29.7% Below IOUs

by JEANNIE SHENK
contributing editor, PUBLIC POWER, *and* APPA *manager of statistics and data processing*

LATEST OFFICIAL FIGURES demonstrate that again the consumer-owners of the nation's local publicly owned electric utilities enjoy electric rates significantly lower than those paid by customers of private power companies.

Comparative statistics for 1984, just published by the Department of Energy's Energy Information Administration (EIA), continue the annual electric utility industry statistical series begun by the former Federal Power Commission (FPC) in 1946. Each report has shown that the local publicly owned segment of the pluralistic electric utility industry has been the leader in providing consumers with lower cost power.

The data appear in EIA's publications of statistics for electric utilities, privately owned and publicly owned. These reports represent nearly 100 percent of the investor-owned utilities (IOUs) and a lesser portion of the publicly owned systems. EIA's statistics for 1984 cover 178 private power companies and 162 local publicly owned electric utilities. EIA statistics for publicly owned utilities have been supplemented with data for an additional 110 municipal utilities published in "TVA Power Program Summary, Volume II." These 110 utilities were included in the EIA or FPC reports for 1978 and earlier years.

The average residential consumer in a local public power system used 20.9 percent more electricity in 1984 than the average residential customer of the private power companies — 10,344 kWh to 8,557 kWh. But the public power consumer paid 15.1 percent less on the average for 20.9 percent greater annual consumption — $547.06 to $644.72. The average residential revenue for the companies in 1984 was 7.53 cents per kWh, 42.3 percent higher than the public systems' average of 5.29 cents per kWh. Or, to phrase it differently, average residential rates paid by public power customers were 29.7 percent below the average paid by customers of IOUs.

SALES TO RESIDENTIAL CONSUMERS

	Average Annual kWh Consumption		*Average Revenue Per kWh (cents)*		*Average Annual Bill (dollars)*	
	Private	*Public*	*Private*	*Public*	*Private*	*Public*
1946	1,298	1,739	3.29	2.32	$42.67	$40.32
1950	1,767	2,518	2.95	1.99	52.14	50.06
1955	2,573	3,824	2.76	1.69	70.97	64.63
1960	3,454	5,208	2.62	1.58	90.51	82.46
1965	4,618	6,634	2.39	1.53	110.53	101.26
1966	4,931	7,007	2.34	1.50	115.37	105.13
1967	5,220	7,317	2.31	1.49	120.38	108.90
1968	5,706	7,880	2.28	1.47	128.43	115.93
1969	6,246	8,546	2.21	1.45	137.99	123.90
1970	6,700	9,015	2.22	1.47	148.92	132.89
1971	7,039	9,378	2.32	1.56	163.08	146.47
1972	7,391	9,630	2.42	1.63	178.96	156.95
1973	7,742	10,080	2.54	1.70	196.54	170.80
1974	7,550	9,797	3.10	1.94	233.85	190.54
1975	7,830	10,125	3.51	2.33	275.17	236.19
1976	7,840	9,539	3.78	2.79	295.94	265.76
1977	8,256	10,791	4.06	2.79	334.92	300.91
1978	8,453	11,383	4.31	3.00	364.35	341.23
1979	8,319	10,940	4.64	3.22	385.70	352.43
1980	8,531	10,744	5.36	3.77	457.23	405.07
1981	8,277	10,391	6.20	4.32	513.11	448.79
1982	8,252	10,188	6.83	4.74	563.71	483.03
1983	8,366	10,389	7.17	5.03	599.92	522.60
1984	8,557	10,344	7.53	5.29	644.72	547.06

SALES TO COMMERCIAL AND INDUSTRIAL CONSUMERS

Average Annual kWh Consumption		*Average Revenue Per kWh (cents)*		*Average Annual Bill (dollars)*	
Private	*Public*	*Private*	*Public*	*Private*	*Public*
28,110	22,475	1.50	1.29	$421.55	$289.24
33,653	25,124	1.54	1.33	518.55	334.40
49,038	38,329	1.45	1.19	711.04	457.55
61,944	49,421	1.49	1.22	922.71	604.69
79,201	66,396	1.40	1.18	1,109.26	783.93
85,265	70,557	1.37	1.16	1,168.58	818.81
89,347	74,373	1.37	1.16	1,224.13	865.43
96,332	79,687	1.36	1.15	1,307.14	916.71
102,965	85,683	1.36	1.15	1,395.61	983.24
107,041	89,653	1.40	1.17	1,502.43	1,052.87
110,973	92,778	1.50	1.26	1,671.12	1,170.33
117,793	98,384	1.58	1.31	1,863.05	1,294.31
124,082	103,785	1.68	1.40	2,083.46	1,449.28
121,112	102,974	2.19	1.64	2,655.04	1,693.43
119,381	110,076	2.62	1.97	3,127.77	2,178.01
125,296	111,414	2.82	2.38	3,531.09	2,654.90
130,602	124,331	3.12	2.38	4,076.98	2,954.33
132,610	129,874	3.39	2.65	4,497.61	3,444.14
133,355	129,342	3.66	2.88	4,877.69	3,722.15
129,499	124,586	4.38	3.41	5,673.85	4,251.19
129,022	126,429	5.07	3.88	6,542.72	4,902.13
122,096	127,807	5.72	4.31	6,982.79	5,508.46
124,308	126,815	5.79	4.48	7,195.13	5,682.92
132,167	128,801	5.97	4.62	7,887.48	5,949.06

2.24¢ per kWh Difference

Thus, on the average, residential customers of the private power companies paid 2.24 cents more for each kWh used in 1984 than consumers served by local publicly owned electric utilities. In 1983 the spread was 2.14 cents per kWh.

Revenue per kWh of electricity sold to residential consumers increased in 1984 for both the privately owned and publicly owned electric utilities. In the case of the public systems, revenue per kWh of residential use went up from 5.03 cents per kWh in 1983 to 5.29 cents per kWh in 1984. For the private companies, average revenue per kWh of electricity sold to residential customers climbed from 7.17 cents to 7.53 cents in 1984.

In 1984 the average commercial or industrial customer of a local public power system used 2.5 percent less power than the average commercial or industrial user served by a private power company (128,801 kWh to 132,167 kWh). The private utility average customer's annual bill was 32.6 percent more ($7,887 to $5,949).

Average commercial and industrial revenue for the privately owned companies, 5.97 cents per kWh, was 29.2 percent higher than the 4.62 cents per kWh for the publicly owned systems.

Average commercial and industrial revenue per kWh was higher in 1984 than in 1983 for both the private and publicly owned utilities — up from 5.79 cents to 5.97 cents per kWh for the companies, and from 4.48 cents to 4.62 cents per kWh for the public systems.

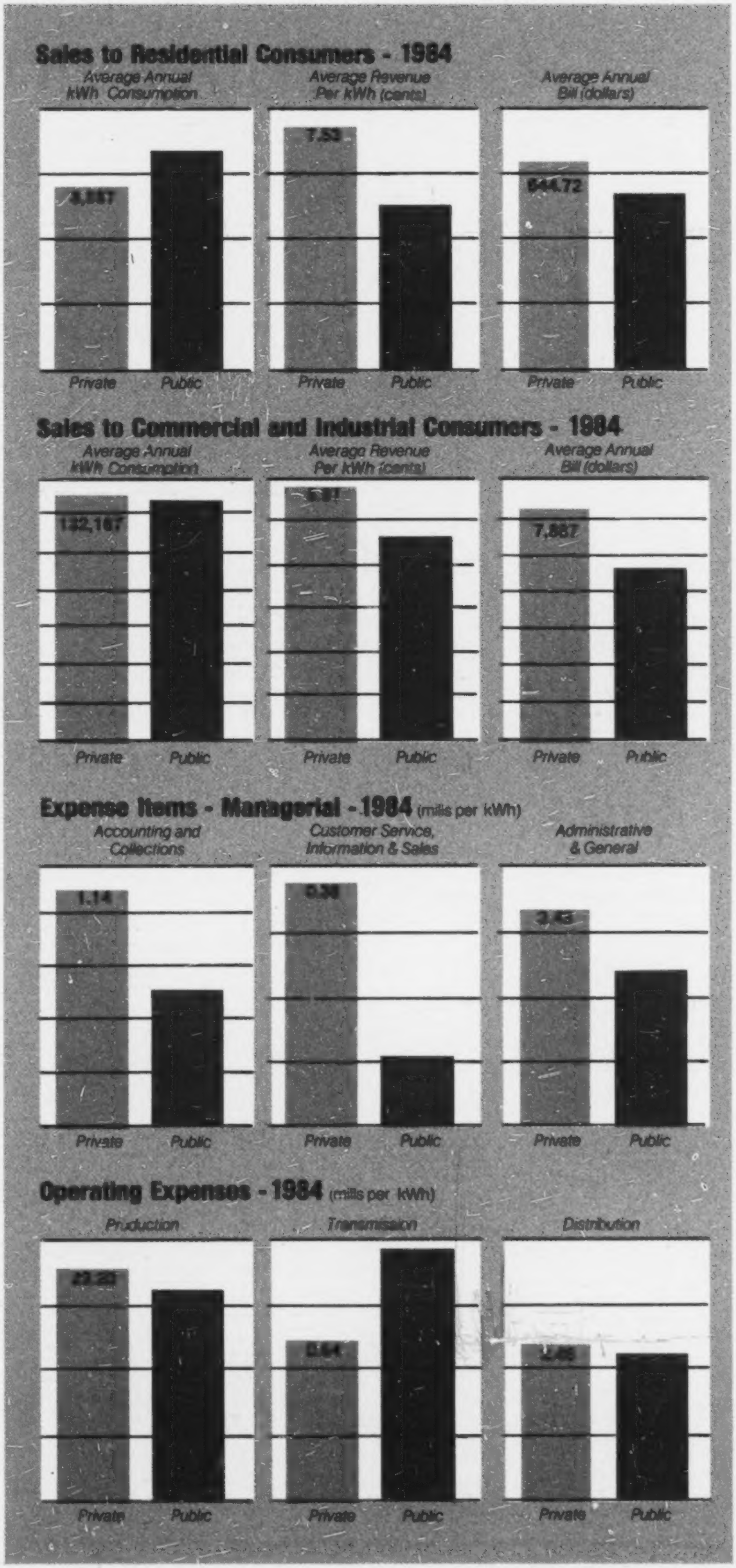
IOU Expenses Higher

Administrative and general expenses reported by the public systems were higher than the private power companies' on the basis of expense per $100 of revenue ($5.69 to $5.54), but lower on the basis of kWh sold (2.43 mills per kWh for the publicly owned systems compared to 3.43 mills per kWh for the companies).

Accounting and collections per customer cost the investor-owned utilities $31.82 in 1984, compared with $25.16 for the publicly owned utilities. This cost was $1.74 higher than 1983 for the IOUs and rose $0.69 for the public systems.

On the basis of kWh sales, accounting and collections cost the companies 1.14 mills per kWh, compared with 0.66 mills per kWh for publicly owned utilities.

In 1984, the private power companies spent 62 cents of each $100 of revenue for customer service, information and



sales expenses (previously reported as promotion and advertising expenses), up four cents from 1983; the publicly owned systems spent 26 cents of each $100 of revenue for this item — down two cents from the previous year.

Customer service, information and sales expenses of the companies were 0.38 mills per kWh sold, compared with 0.11 mills for the public power systems.

Production costs per kWh were lower in the public systems than the companies in 1984, for the 15th consecutive year: 29.20 mills per kWh for the companies; and 26.26 mills per kWh for the publicly owned systems.

Distribution expenses per customer rose for both types of systems in 1984 — from $54.06 in 1983 to $57.70 in 1984 for the companies, and from $57.36 in 1983 to $59.43 in 1984 for the public systems. Distribution expenses for the companies were 2.46 mills per kWh sold to ultimate customers, compared to 2.28 mills per kWh sold to ultimate customers by the public systems.

For the eighth year since the federal statistics have been published, IOU transmission costs were lower. In 1984 their transmission expenses per kWh rose to 0.64 mills, up from 0.60 mills in 1983 and 0.56 mills in 1982; the public systems' transmission costs in 1984 were 0.95 mills per kWh, up from 0.92 mills in 1983 and 0.86 mills in 1982.

The publicly owned electric utilities had electric operating revenue of 4.26 cents per kWh sold in 1984, while the privately owned electric utilities had operating revenues of 6.18 cents per kWh. The private companies had net interest charges which equaled 0.55 cents for each kWh sold and dividends on preferred and common stock equal to, respectively, 0.14 cents and 0.54 cents per kWh sold. The publicly owned utilities had total income deductions equal to 0.59 cents per kWh sold in 1984.

The cost of debt and equity capital for the privately owned utilities was equal to 17.3 percent of operating revenue. The public systems, which do not pay dividends to private stockholders, paid the equivalent of 14.0 percent of their operating revenue as interest on long-term debt and for other income deductions.

These latest statistical reports show that in 1984, as in the previous 38 years since the comparative statistics have been published, the local publicly owned electric utilities are leading the industry in providing economical electric service to consumers. ✺

EXPENSE ITEMS

OPERATIONS

	Production		Transmission		Distribution	
	Per kWh Sold (in mills)		*Per kWh Sold (in mills)*		*Per Customer (in dollars)*	
	Private	*Public*	*Private*	*Public*	*Private*	*Public*
1946	4.35	4.30	.27	.14	$9.37	$9.19
1950	4.96	4.68	.26	.13	12.04	11.77
1955	4.42	4.68	.26	.13	14.18	13.79
1960	4.20	4.70	.25	.15	16.19	10.24
1965	3.98	4.34	.21	.15	17.48	17.93
1966	4.01	4.36	.21	.16	17.84	18.54
1967	4.03	4.31	.21	.15	18.67	19.37
1968	4.09	4.16	.21	.15	19.31	20.43
1969	4.21	4.23	.22	.13	20.56	22.88
1970	4.76	4.61	.23	.15	22.14	24.15
1971	5.49	5.25	.24	.16	22.82	25.41
1972	5.97	5.71	.25	.16	24.13	26.02
1973	6.70	6.47	.26	.17	25.52	27.53
1974	10.72	8.01	.29	.18	26.46	29.98
1975	12.70	9.35	.31	.21	27.63	31.78
1976	13.73	12.04	.34	.29	29.51	34.18
1977	15.87	13.28	.35	.54	31.76	33.78
1978	17.27	14.37	.37	.64	34.81	35.94
1979	19.69	16.32	.40	.67	37.68	38.17
1980	24.14	20.16	.43	.68	41.90	44.83
1981	27.89	23.53	.48	.81	45.19	48.97
1982	29.00	24.64	.56	.86	50.62	53.80
1983	28.55	25.85	.60	.92	54.06	57.36
1984	29.20	26.26	.64	.95	57.70	59.43

MANAGERIAL

	Accounting and Collections Per Customer		*Customer Service, Information and Sales Per $100 Revenue*		*Administrative and General Per $100 Revenue*	
	Private	*Public*	*Private*	*Public*	*Private*	*Public*
1946	$3.73	$2.82	$1.77	$1.03	$7.22	$6.11
1950	4.44	3.35	1.79	1.11	7.90	6.85
1955	5.33	4.00	1.73	.95	6.73	6.59
1960	6.38	4.94	1.70	1.04	6.29	6.31
1965	7.06	6.15	1.79	1.14	6.23	5.80
1966	7.18	6.13	1.83	1.09	6.00	5.84
1967	7.34	6.48	1.79	1.10	5.87	6.23
1968	7.68	6.78	1.75	1.10	5.70	6.10
1969	8.11	7.36	1.69	1.08	5.74	6.08
1970	8.86	7.98	1.54	1.01	5.87	6.25
1971	9.61	8.77	1.30	.89	5.84	6.06
1972	10.31	9.18	1.00	.80	5.88	5.96
1973	11.33	9.55	.74	.67	5.78	5.79
1974	13.26	10.61	.42	.50	5.19	5.65
1975	15.25	12.33	.30	.35	4.98	5.14
1976	16.34	14.50	.27*	.28	4.99	5.09
1977	17.17	12.75	.36	.22	4.94	4.68
1978	18.59	15.87	.36	.22	5.11	4.64
1979	20.25	16.41	.38	.29	5.21	4.24
1980	22.51	18.40	.37	.28	5.08	4.45
1981	25.82	20.87	.42	.31	5.05	4.22
1982	28.97	23.33	.50	.29	5.42	5.17
1983	30.08	24.47	.58	.28	5.57	5.19
1984	31.82	25.16	.62	.26	5.54	5.69

(*) "Customer Service, Information and Sales" was formerly listed as "Promotion and Advertising." The 1976 and subsequent figures reflect a federal reporting change which combined sales expenses with customer service and information expenses.

Public Power Contributes More

by JEANNIE SHENK
contributing editor, PUBLIC POWER, and APPA manager of statistics and data processing

COMPARISON OF PUBLIC AND PRIVATE utility taxes may surprise persons who do not follow the issue closely. Public power systems pay proportionately more of their gross revenues to local and state governments than do investor-owned utilities (IOUS).

During 1984, the last year for which statistics are available, publicly owned systems contributed 7.8 percent of their gross electric operating revenue to local and state governments. IOUS paid 6.3 percent to state and local governments (and to the U.S. government as excise tax) during the same period.

During the previous year public systems contributed 8.3 percent, and private systems 6.0 percent, of their gross electric operating revenues.

Public power payments to local and state governments include both direct payments (taxes, in-lieu-of-tax-conveyances and transfers to general funds) and indirect payments such as streetlighting, traffic signals and electricity for municipal buildings. These payments, according to data provided APPA by 646 public systems, were generally higher in the Mountain and Atlantic regions (12.7 percent and 11.4 percent respectively) and lowest in the East North Central and Northeast regions (4.4 percent and 6.3 percent, respectively).

Public power systems do not pay federal income taxes. Neither do many private electric utilities. In 1984, the last year for which official data are available, investor-owned utilities received $154.8 billion in total revenues and were charged $3.4 billion in taxes*—2.2 percent of total revenue. Taxes actually *paid* were less than taxes *charged*, because of tax deferral.

Taxes and Payments In-Lieu-of-Taxes by Public and Private Utilities

Average percentage of gross electric operating revenue paid to state and local governments

Region	Public	Private
	(Number of systems reporting in parentheses)	
NORTHEAST	6.3%	6.7%
Conn., Maine, Mass., N.H., N.J., N.Y., Pa., R.I., Vt.	(60)	(47)
ATLANTIC	11.4	5.9
D.C., Del., Fla., Ga., Md., N.C., S.C., Va., W.Va.	(67)	(22)
EAST NORTH CENTRAL	4.4	7.0
Ill., Ind., Mich., Ohio, Wis.	(115)	(37)
*EAST SOUTH CENTRAL**	9.7	4.2
Ala., Ky., Miss., Tenn.	(107)	(9)
WEST NORTH CENTRAL	7.1	7.2
Iowa, Kan., Minn., Mo., Neb., N.D., S.D.	(180)	(20)
WEST SOUTH CENTRAL	8.9	4.0
Ark., La., Okla., Texas	(34)	(16)
MOUNTAIN	12.7	6.4
Colo., Mont., N.M., Utah, Wyo.	(22)	(4)
PACIFIC NORTHWEST	8.1	6.6
Alaska, Idaho, Oreg., Wash.	(45)	(6)
PACIFIC SOUTHWEST	7.7	6.0
Ariz., Cal., Nev.	(16)	(8)
OTHER	—	9.7
Hawaii**		(1)
U.S. Average	7.8%	6.3%
Total number of systems reporting	(646)	(170)

SOURCES: APPA utility information surveys; FERC Form 1, annual reports of electric utilities; Vol. 2, TVA power program summaries; and other data supplied by TVA's government research unit.

* This includes TVA in-lieu-of-tax payments to state and local governments of municipal systems that distribute TVA power. All of the public power systems in Tennessee and half of the public power systems in Alabama, Kentucky and Mississippi are TVA distributors.
** No public power systems in Hawaii.

Thirty-two private utilities either were charged no federal income taxes or received tax credits despite their profits, because federal legislation virtually frees them from taxation. ✸

**Taxes were reported on 178 IOUS in "Financial Statistics of Selected Electric Utilities in the U.S., 1984," (DOE/EIA). Total revenues include utility operating revenues and other income.*

Is Your Power Good Enough?

by LARRY BRUNEEL

contributing editor, PUBLIC POWER *and* APPA *staff engineer*

YOU ARE WORKING ON your home computer finishing up this year's tax return, when the screen flashes and then goes blank.

The microwave oven is busy zapping the baked potato when lightning strikes and the micro stops waving.

While you vacation your videocasette recorder is scheduled to tape "Dynasty" but upon your return you find a blank tape.

In each case a finger could be pointed at the utility for supplying poor quality power. Right?

Probably not. Home computers and other sensitive microprocessor equipment face "power system problems that are not the utility's, but rather the customer's, responsibility," according to Claudette Lee, educational consultant at Ecos Environmental Solutions, a firm which offers training and consulting regarding a clean electrical environment for microprocessor-based equipment.

In order of importance, power system problems for sensitive equipment are:

(1) improper grounding design in the home or commercial establishment;

(2) improper wiring in the home or commercial establishment; and

(3) power-quality (voltage) problems originating with the generator.

In other words, the utility system often gets the blame when improper grounding on the customer side of the meter may be the culprit. Furthermore, manufacturers of sophisticated electronic equipment may not be building in protective voltage regulators or filters.

The appliance market particularly is extremely competitive; price savings, even at the expense of protection, can mean more sales. Unfortunately, consumers may not be told what kind of protection their new purchase requires.

"An electric utility has to provide very high-grade electric service to meet stringent state and national standards," said Cowlitz County (Wash.) Public Utility District (PUD) General Manager Robert L. McKinney. "However, from time to time equipment and material do fail, and service may be interrupted. When power is restored it may be accompanied by a power surge. Equipment's ability to withstand power surges varies widely and it is incumbent on the purchaser of appliances and devices used in homes and businesses to determine whether they are designed to handle variations in power supply."

Still, utilities will be accused in many cases. Utilities must educate themselves about problems on both sides of the meter if they are to avoid liability issues and customer dissatisfaction.

When Should a Utility Pay?

Liability is an issue of increasing concern not only because of the growing amount of sensitive equipment used by consumers, but because of tighter liability insurance markets. Utility insurance can cover claims to replace household appliances such as computers that are damaged by irregular voltage, but each filed claim may increase premiums. Whether or not the utility should pay the claim depends substantially on what caused the irregular voltage.

A recent survey of 154 distribution utility managers in the Tennessee Valley profiled causes of irregular voltage and payment of claims for resulting customer damages. Essentially, the managers did not pay on most claims that were not the direct fault of the utility. For instance, few claims were paid on high- or low-voltage situations and lightning or storm damages. Incorrect connections at either meters or transformers led to most of the successful claims.

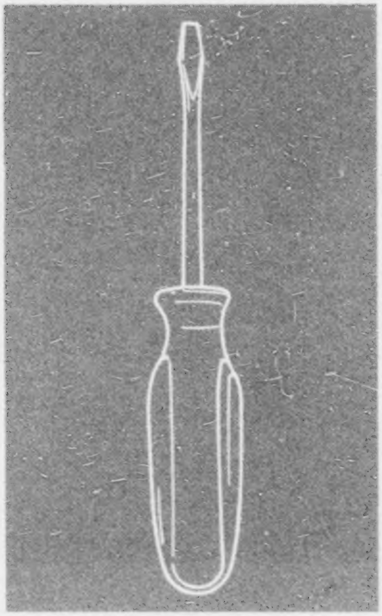
A utility can decrease damage incidents by better operational practices in generating stations and substations; hardening of the system against storm damage; and better maintenance of lines, substations, and meter connections. In addition, utilities can help customers fulfill their responsibilities.

A comprehensive assessment includes recommendation of corrective measures as well as protective devices to ensure a clean, reliable power source for a specific customer. Utilities may want to perform these assessments themselves, or recommend knowledgable professionals.

Education Is A Utility Service

Because many power quality problems begin on the customer side of the meter, it is difficult for utilities to assess and prescribe remedies for problems. By educating consumers, repair technicians, electricians and other individuals who deal with end-use equipment, a utility may head off future claims headaches.

After a recent windstorm damaged electrical equipment, Cowlitz County PUD told local TV repair shops its position regarding customers' damaged equipment, and presented options customers could consider to deal with future damages. The PUD discovered that TV repair shops were advising customers that the utility was responsible, and that customers should fill out a damage claim form for reimbursement. The PUD informed the repair shops of its policy and legal position regarding customers' damaged equipment: "The district is not liable for damages sustained by uncontrollable causes not traceable or ascribable to negligent conduct on its part."



One of the most effective tools for improving electric power quality is an ordinary screwdriver, used to tighten loose connections and correct improper wiring in a home or business.

Last summer, the Austin (Texas) Electric Department held a seminar for computer users to deal with power quality problems that can affect computer operations. Additionally, Austin discussed power conditioning equipment that could protect computers. About 300 persons, representing business and residential customers and 15 manufacturers displaying protection devices, attended the seminar.

Utilities are not delivering a lower quality product than they used to. Most causes of troublesome variations are as old as electrical use. The problem now is that microprocessor-based equipment—including computers, some TVs, microwave ovens and other sensitive electronic apparatus—are not as tolerant of variations in power supply as are traditional electric devices.

While there are many different kinds of power supply variations, major disturbances fall into these categories.

- Power failures, blackouts, and other interruptions;
- Voltage sags and surges (from one-tenth of a second to one second);
- Voltage transients—"spikes"—(voltage increases of less than one-tenth of a second);
- Distortion of the electromagnetic wave;
- Variations from the standard 60-hertz frequency; and
- Radio frequency interference.

The sources of these problems include, among others, the following system events:

- Lightning, causing surges that, even though caught by fuses, sometimes affect end-use equipment because of quick current shifts;
- Downed lines caused by anything from storms to auto accidents;
- Utility load switching (spikes can be caused by slow switches); and
- Capacitor bank switching.

Even something as mundane as static electricity can cause significant damage. Recent research shows static electricity is a major cause of computer malfunctions. Even equipment in an uncarpeted area or far from a dry "static-prone" climate can be weakened by frequent small static jolts.

Static charges often are not seen, felt or heard. It takes about 4,000 volts before a static spark is visible to the eye, but as few as 2,000 volts can alter a computer's memory, wipe out programs or permanently destroy circuits.

Proper Grounding Important

According to Fred Knight, formerly of Ecos Environmental Solutions, "Experience shows that approximately 7 percent of residential and commercial facilities have improper wiring which includes poor or no grounding and/or loose or miswired receptacles."

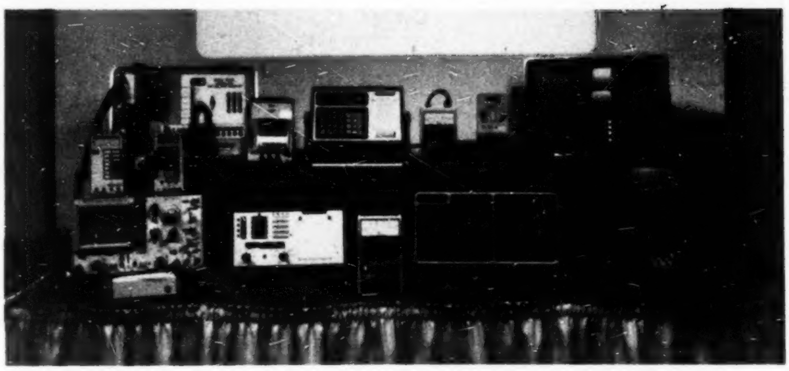
If the voltage-source grounding point is separated from the end-use equipment grounding point there is a possibility of voltage differences between them. A common ground is the best solution. Without proper grounding, improvements on the rest of the supply system may be for nought. The National Electrical Code offers proper guidelines.

Voltage regulators might be the next best level of protection. Two significant factors in assessing regulators are clamping time and energy-handling capacity. Voltage spikes can be very short (measured in nanoseconds—billionths of a second) and the voltage regulator should respond in that range. Response times may be as short as picoseconds (trillionths of a second). With spikes reach-

Premium Electric Service Survey

IN THE SUMMER of 1985, the Omaha (Neb.) Public Power District surveyed APPA members on premium electric service. The utility asked if utilities currently provide, or are considering providing, several types of premium service. Of the approximately 900 questionnaires mailed, 157 were completed and returned. Most respondents were not providing nor considering provision of premium service, but were interested in more information on the subject.

Service	*Currently providing, for extra charge*	*Considering*
(1) Special maintenance, or customer preference, in restoration of normal electric service	5	3
(2) Network service, offering two supply paths from substation	2	0
(3) Two primary circuits for customer hookups, with automatic throwover	24	14
(4) Power-conditioning equipment such as surge protectors, or uninterruptible power system for computers or other sensitive loads	1	6
(5) Backup power at customer site	2	2
(6) Maintenance for (4) and (5)	1	2
TOTAL SYSTEMS	27	18



An assortment of equipment, including a powerline monitor, oscilloscope and other diagnostic instruments, helps troubleshoot ac-power-related problems of microprocessor-based devices. Photo by Ecos Electronics

ing up to 25,000 volts, the energy-handling capacity should be sufficient to dissipate large voltages quickly.

Vendors claim some units can handle millions of watts for very brief periods. Note that many regulators use varistors that do not start dissipating power until the overvoltage is about 100 percent above normal, in order to prevent the varistor from destroying itself.

Line noise is a "dirty" sine wave signal. Noise can be electromagnetic interference (usually errant communications signals) or electromagnetic pulses (from lightning, automobile ignitions, or spikes). There are different kinds of line filters for noise, each with different capabilities. Ferrite inductors become overloaded very quickly with electricity from large spikes. Ferro-resonant transformers are better because of their voltage-regulating capabilities, but are more expensive. The faster tap-switching regulators may be the best combination of filter and voltage regulators.

The ultimate—and thus probably most expensive—protection comes from uninterruptible power supplies (UPS). While many personal computers have internal voltage regulators that can handle 15 to 20 percent voltage reduction without damage, dips beyond that can cause erratic operation. A power-storage device is needed for greater protection.

A UPS may consist of a motor-generator set or a battery in various wiring configurations. Essentially the UPS is designed to handle short-term power loss, usually enough time to alert operators to shut systems down. Some UPS systems may also act as filters and voltage regulators, depending on wiring configuration.

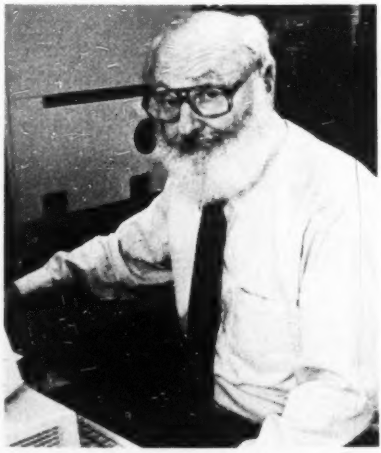
What Is The Utility Role?

Electric utilities have two paths to take in meeting the needs of consumers requiring high-quality power. One path leads to upgrading the entire power supply system to ensure a clean, stable power signal to all consumers at all times. While this is certainly the goal of all electric utilities, power degrades on its way from the generator to the consumer. Utility systems have to weigh the benefits of system upgrades against their costs.

The other path leads to identification of customers with special power needs, who are encouraged to provide adequate protective measures. A utility may go so far as to provide a separate service to those customers, and recover costs directly. A number of optional utility services are possible:

- Public education programs such as Cowlitz County's and Austin's, mentioned earlier, provide examples of informing specific customer groups.
- A screening and referral service offers a low-cost way to handle specific customers. The utility can compile a referral list of consultants, manufacturers and vendors for interested customers. The utility pays for research into the background and capabilities of each company. It is up to the customer to arrange for specific services.
- The utility can offer the consulting service directly on either a free or cost-recovery basis. Utility personnel can offer basic suggestions, visit a site, or set up monitoring equipment to meet the needs of each customer. The personnel can offer specific remedies and also equipment recommendations.
- Building on the consulting service idea, a utility can actually sell recommended equipment, arrange for leases, or ultimately sell a specific level of high-quality electric service. By ensuring high-quality power, the utility can reserve the right to monitor a problem and install equipment as needed. A predetermined monthly fee can cover all related expenses for a particular customer.

Sadness and chagrin characterize the engineer whose computer program vanishes because of momentary degradation of electric power quality. Photo by Lori Woehrle



Alfred Sloan of General Motors Corp. scored a marketing coup over Henry Ford when GM first sold cars in colors. In the same way, utilities may want to sell two or more levels of electric service on a wide scale. Certainly some utilities already offer different levels of service through interruptible power, network service, and dual primary circuits. Even load management is a different level of service.

As customers increasingly use more and more sophisticated electronic equipment, demands will be made on utilities to provide cleaner, more reliable, service. It behooves utilities to identify demands and options for handling them, to minimize customer complaints and to prepare for future competition.

Will the Alfred Sloan of the utility industry please step forward? ✹

Author's note: The federal government has published a standard for power in automatic data processing installations that addresses many areas such as grounding, power conditioning, static electricity and lightning protection. The title is GUIDELINE ON ELECTRICAL POWER FOR ADP INSTALLATIONS (Federal Information Processing Standards Publication 94). It is available from the National Technical Information Service, Springfield, Va. 22161 for $16.95 plus $3 handling. PC WEEK, PERSONAL COMPUTING and INDUSTRIAL AND PROCESS CONTROL MAGAZINE have carried in-depth articles about power-quality problems particularly related to personal computers.